



**SRI VASAVI ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada



20+

SCUD

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Intresting Articles, Theories
Snippets , Dept. Galleryv
Photography and Paintings.

ARSENAL

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01 APACHE HADOOP

Apache Hadoop are their main aim at this a core part of the computing infrastructure for many web companies, such as Facebook, Amazon, LinkedIn, Twitter, IBM, AOL, and Alibaba. Most of the Hadoop framework is written in Java language, some part of it in C language and the command line utility is written as shell scripts. In this post, I have covered what is Apache Hadoop and explained the architecture of Hadoop.

What is Hadoop?

Hadoop is an open source framework by Apache Software Foundation and known for writing and running distributed a applications that process large amounts of data. It is well suited for voluminous data processing like searching and indexing in the huge data set. Hadoop was created by Doug Cutting, the creator of Apache Lucene, the widely used text search library Hadoop's accessibility and simplicity give it an edge overwriting and running large distributed programs. On the other hand, its robustness and scalability make it suitable for even the most demanding jobs at Amazon and Facebook

Facebook data has grown up to 600TB/day by 2014 and in future shall produce data of a much higher magnitude. They have many web servers and huge MySQL servers to hold user data. No of users who commented on a particular day. The solution for this requirement they had scripts written in Python which uses ETL processes. But as the size of data increased to this extent these scripts did not work. Hencis point of time was to handle data warehousing and their home ground solutions were not working. Dealing with "Big Data" requires – inexpensive, reliable storage and a new tool for analyzing structured and unstructured data. This is when Hadoop came into the picture.

Hadoop includes the Hadoop Distributed File System (HDFS) and MapReduce. It is not possible for storing a large amount of data on a single node Key distinctions of Hadoop are given below.

// ACCESSIBLE

Hadoop runs on large clusters of commodity machines or on cloud computing services such as Amazon's Elastic Compute Cloud (EC2), Amazon Elastic MapReduce process data stored in S3

// ROBUST

Because it is intended to run on commodity hardware, Hadoop is architected with the assumption of frequent hardware malfunctions. It can gracefully handle most such failures.

// SCALABLE

Hadoop scales linearly to handle larger data by adding more nodes to the cluster.

// Simple

Hadoop allows users to quickly write efficient parallel code.



Hadoop Architecture:

HBase:

A distributed, column-oriented database. HBase uses HDFS for its underlying storage and supports both batch-style computations using MapReduce and point queries (random reads). HBase is not a direct replacement for a classic SQL database, although recently its performance has improved, and it is now serving several data-driven websites, including Facebook's Messaging Platform.

HDFS:

A distributed filesystem that runs on large clusters of commodity machines.

MapReduce:

MapReduce is a functional programming paradigm that is well-suited to handling parallel processing of huge data sets distributed across a large number of computers, or in other words, MapReduce is the application paradigm supported by Hadoop and the infrastructure presented in this article. MapReduce, as its name implies, works in two steps:

Avro:

It is the serialization framework created by Doug Cutting, the creator of Hadoop. With Avro, we can store data and read it easily with various programming languages. It is optimized to minimize the disk space needed by our data and it is flexible after adding or removing fields to our data we can still keep reading files previous to the change.

Hive:

A distributed data warehouse. Hive manages data stored in HDFS and provides a query language based on SQL for querying the data. Hive looks very much like a traditional database code with SQL access. However, because Hive is based on Hadoop and MapReduce operations, there are several key differences.

Pig:

A data flow language and execution environment for exploring very large datasets. Pig runs on HDFS and MapReduce clusters. The pig was initially developed at Yahoo to allow people, which is called PigLatin and the second is a runtime environment where PigLatin programs are executed.

Chukwa:

Chukwa is a data collection and Analysis Framework that works with Hadoop to process and analyze the huge logs generated. It is built on top of the Hadoop Distributed File System (HDFS) and Map Reduce Framework. It is a highly flexible tool that makes Log analysis, processing, and monitoring easier, especially while handling Distributed File Systems like Hadoop.

ZooKeeper:

ZooKeeper is an open source Apache project that this information in local log files. A very large Hadoop cluster can be supported by multiple ZooKeeper servers. Each client machine communicates with one of the ZooKeeper servers to retrieve and update its synchronization information. Within ZooKeeper, an application can create what is called a znode. The znode can be updated by any node in the cluster, and any node in the cluster can register to be informed of changes to that znode.

Sqoop:

Using Hadoop for analytics and data processing requires loading data into clusters and processing it in conjunction with other data that often resides in production databases across the enterprise. Loading bulk data into Hadoop from production systems or accessing it from map reduce applications running on large clusters can be a challenging task. This is where Apache Sqoop fits in. Sqoop allows easy import and export of data from structured data stores such as relational databases, enterprise data warehouses.

Advantages :

1. Servers can be added or removed from the cluster dynamically and Hadoop continues to operate without interruption.
2. Another big advantage of Hadoop is that apart from being open source, it is compatible on all the platforms since it is Java based.

Conclusion :

When big software vendors like Facebook, IBM, Yahoo were struggling to find a solution to deal with the voluminous data, Hadoop is the only technology which offered a moderate solution. Apache Hadoop has become a necessary tool to tackle big data. As the world is turning digital, we would definitely come across more and more data and need to think of a more simplified solution to handle growing big data.



Jahnavi
18A81A05E6



“Mera baba desh chalatha hey...
My father runs the country....

He is not a politician but runs the country.

He is not a doctor but he keeps diseases away. My father runs the country... He is not a policeman but keeps the country free of filth. He is not even in the army but he wages war against the countries nastiest enemies. My father runs the country... If my father won't go to work, every Indian home will come to a halt, no meals will be cooked, no showers taken, chaos will rule the streets, children won't be able to go to schools, no doctors to hospitals, ministers won't reach the parliament and the entire country will come to a standstill. He makes all our lives easier. My father does what no father wants to do. My father runs the country.... Because the country doesn't separate it's wet and dry waste. My father goes deep inside gutters and garbage and often comes out really, really sick. Sometimes i worry my father lose to these diseases. Sometimes I worry my father won't come back home. Save my father. Don't let the country be run by my father alone. Because the country is run by each one of us.”



02 #TwoBinsLifeWins

The child of a sanitation worker in a video shows a schoolboy reciting poetry about his father during a recitation competition where he talks about how his Baba runs the country risking his own life so that people can go about their businesses every day . This video was shared by The Tata Group Chairman Emeritus Ratan Tata throwing light on the plight of sanitation workers who work in despicable conditions that not only endanger their health and lives but also violate their dignity and human rights.

The gut-wrenching ad is a part of Tata Trusts initiative Mission Garima, which strives to provide safe, hygienic and humane working conditions for sanitation workers who are severely affected.

What the campaign is about :

The #TwoBinsLifeWins campaign is a part of Tata Trusts' Mission Garima which urges citizens to segregate waste at the source, to make the lives of the sanitation workers better, more dignified.

What can we do:

“Cleanliness is next to Godliness ”, do you still believe in this statement or has it become obsolete to you? –Ask yourself these simple questions - Do you know why are different bins painted in different colors? Do you put out your trash after segregating the dry and the wet waste? If the answer to any of these questions is negative, you need to sit and think about your actions that are stealing the happiness of a large number of sanitation workers.



Every year, multiple penury and poverty-stricken people who work in sewers and gutters to separate wet and dry waste fall prey to life-threatening diseases. They lose their lives because someone from us didn't have one second to put the waste we created in the right place. Not only is an individual affected by man's ignorant self, but also their families, who were completely dependent on them, tread on an incessant journey of pain and sufferings.

"Two Bins Life Wins" is a program initiated by Tata Trusts that encourages people to separate biodegradable and non-biodegradable waste. They are working towards ensuring the safety of sanitation workers keeping the sanctity of human life a top priority. This is their cause, what's yours?



Having problem in recognizing what is wet waste and what is dry waste? Here are some handy tips for u!

Wet waste includes all waste that can decompose .It includes raw and cooked food waste including fish & meat bones .Most garden and kitchen waste, including flowers and coffee beans are classified as wet waste .It does not include used / wet tissues or paper cups .Wet waste should be put in GREEN public dustbins . Make sure you have a separate bin for wet waste and dry waste at home .You can go a step further and compost your wet waste at home as well. Therefore.. two bins life wins.

Here is a trick u can follow that if u have maids at your home ask them to separate the waste and tell them to sell the dry waste so that they can get some profit out of it and our aim can be reached.

Their dignity matters ..

Yes, their dignity matters because they are on nation's duty. They are no more less to doctors. They are no more less to police or army. The work they are doing daily is not only for feeding their family but also to serve the people (i.e. in service of nation).

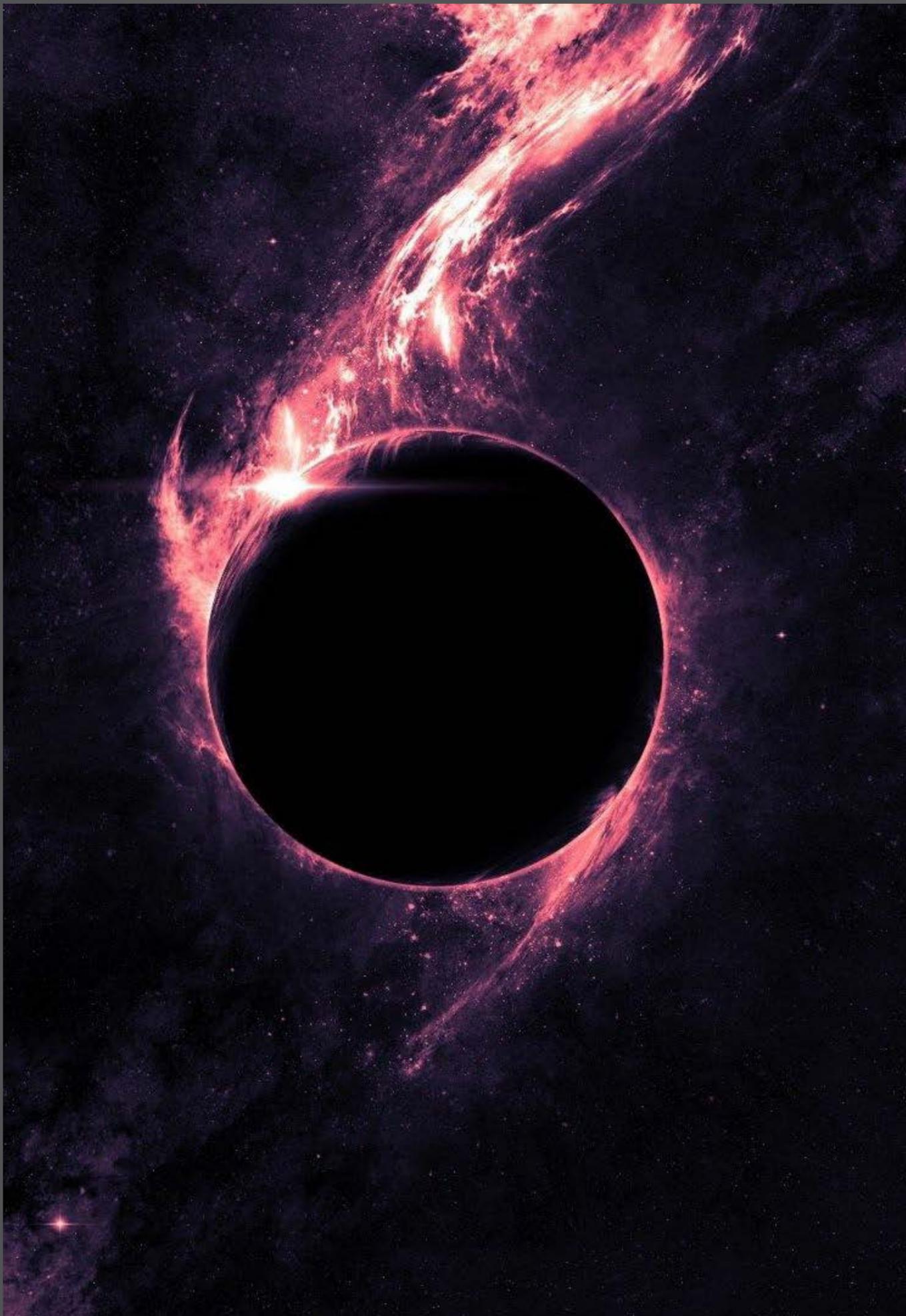
But the sad thing is that most of the people don't treat them well or sometime they treat them like they are their servants or untouchables. But everyone keep one thing in mind that They are the persons who cleans everyday garbage which we creates (i.e. our homemade waste, human waste in gutters) by putting their life in risk.

We must change our perspective towards them cause they are also citizens likes us, they also have same right to live like other citizens with dignity and respect, we cannot consider them dirty on basis of work they do. From today we promise ourselves that we should be kind toward them, also respect them and keep separate dustbins for wet dry waste for their convenience, we should keep in mind that they are on nation's duty, I think they are the Real Brand Ambassadors of our clean India mission instead of high class celebrities....



Every year lives of thousands of sanitation workers are severely affected in this process of doing unimaginable for the country. So let's start separating our waste into biodegradable wet waste and non biodegradable dry waste so that children of sanitation workers don't lose their fathers anymore. And we should all mind our waste.

J.Mamatha sai
18A81A05E8



03 Black Hole

What Is a Black Hole?

A black hole is a place in space where gravity pulls so much that even light can not get out. The gravity is so strong because matter has been squeezed into a tiny space. This can happen when a star is dying.

Because no light can get out, people can't see black holes. They are invisible. Space telescopes with special tools can help find black holes. The special tools can see how stars that are very close to black holes act differently than other stars.

There are four types of black holes: Stellar, Intermediate, Supermassive, and Miniature. The most commonly known way a black hole forms is by stellar death. As stars reach the ends of their lives, most will inflate, lose mass, and then cool to form white dwarfs. But the largest of these fiery bodies, those at least 10 to 20 times as massive as our own sun, are destined to become either super-dense neutron stars or so-called stellar-mass black holes.

How Do Black Holes Form?

Scientists think the smallest black holes formed when the universe began. Stellar black holes are made when the center of a very big star falls in upon itself, or collapses. When this happens, it causes a supernova. A supernova is an exploding star that blasts part of the star into space. Scientists think supermassive black holes were made at the same time as the galaxy they are in.

If Black Holes Are "Black," How Do Scientists Know They Are There?

A black hole can not be seen because strong gravity pulls all of the light into the middle of the black hole. But scientists can see how the strong gravity affects the stars and gas around the black hole. Scientists can study stars to find out if they are flying around, or orbiting, a black hole.

When a black hole and a star are close together, high-energy light is made. This kind of light can not be seen with human eyes. Scientists use satellites and telescopes in space to see the high-energy light.

Could a Black Hole Destroy Earth?

Black holes do not go around in space eating stars, moons and planets. Earth will not fall into a black hole because no black hole is close enough to the solar system for Earth to do that. Even if a black hole the same mass as the sun were to take the place of the sun, Earth still would not fall in. The black hole would have the same gravity as the sun. Earth and the other planets would orbit the black hole as they orbit the sun now. The sun will never turn into a black hole. The sun is not a big enough star to make a black hole.

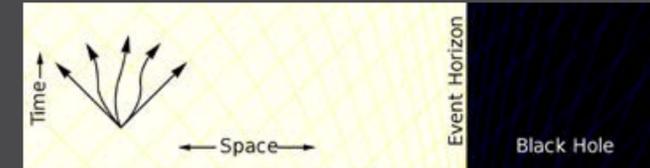
Properties and structure

The no-hair conjecture postulates that, once it achieves a stable condition after formation, a black hole has only three independent physical properties: mass, charge, and angular momentum; the black hole is otherwise featureless. If the conjecture is true, any two black holes that share the same values for these properties, or parameters, are indistinguishable from one another. The degree to which the conjecture is true for real black holes under the laws of modern physics, is currently an unsolved problem.

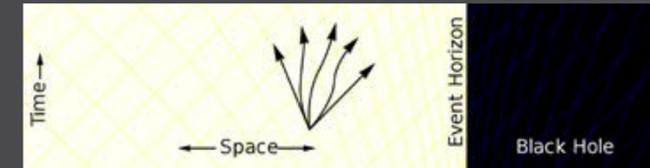
These properties are special because they are visible from outside a black hole. For example, a charged black hole repels other like charges just like any other charged object. Similarly, the total mass inside a sphere containing a black hole can be found by using the gravitational analog of Gauss's law, the ADM mass, far away from the black hole. Likewise, the angular momentum can be measured from far away using frame dragging by the gravitomagnetic field.

When an object falls into a black hole, any information about the shape of the object or distribution of charge on it is evenly distributed along the horizon of the black hole, and is lost to outside observers. The behavior of the horizon in this situation is a dissipative system that is closely analogous to that of a conductive stretchy membrane with friction and electrical resistance—the membrane paradigm. This is different from other field theories such as electromagnetism, which do not have any friction or resistivity at the microscopic level, because they are time-reversible. Because a black hole eventually achieves a stable state with only three parameters, there is no way to avoid losing information about the initial conditions: the gravitational and electric fields of a black hole give very little information about what went in. The information that is lost includes every quantity that cannot be measured far away from the black hole horizon, including approximately conserved quantum numbers such as the total baryon number and lepton number. This behavior is so puzzling that it has been called the black hole information loss paradox.

Far away from the black hole, a particle can move in any direction, as illustrated by the set of arrows. It is restricted only by the speed of light.



Closer to the black hole, spacetime starts to deform. There are more paths going towards the black hole than paths moving away.



Inside of the event horizon, all paths bring the particle closer to the center of the black hole. It is no longer possible for the particle to escape.

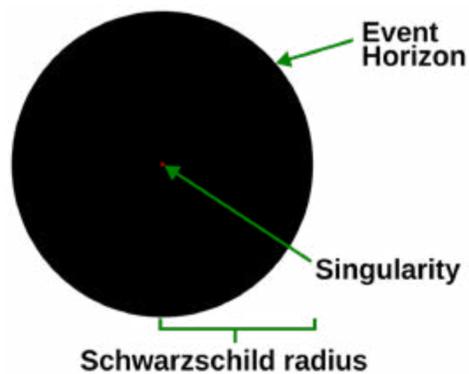


One black hole is not like the others

Supermassive black holes, predicted by Einstein's general theory of relativity, can have masses equal to billions of suns; these cosmic monsters likely hide at the centers of most galaxies. The Milky Way hosts its own supermassive black hole at its center known as Sagittarius A* (pronounced "ay star") that is more than four million times as massive as our sun.

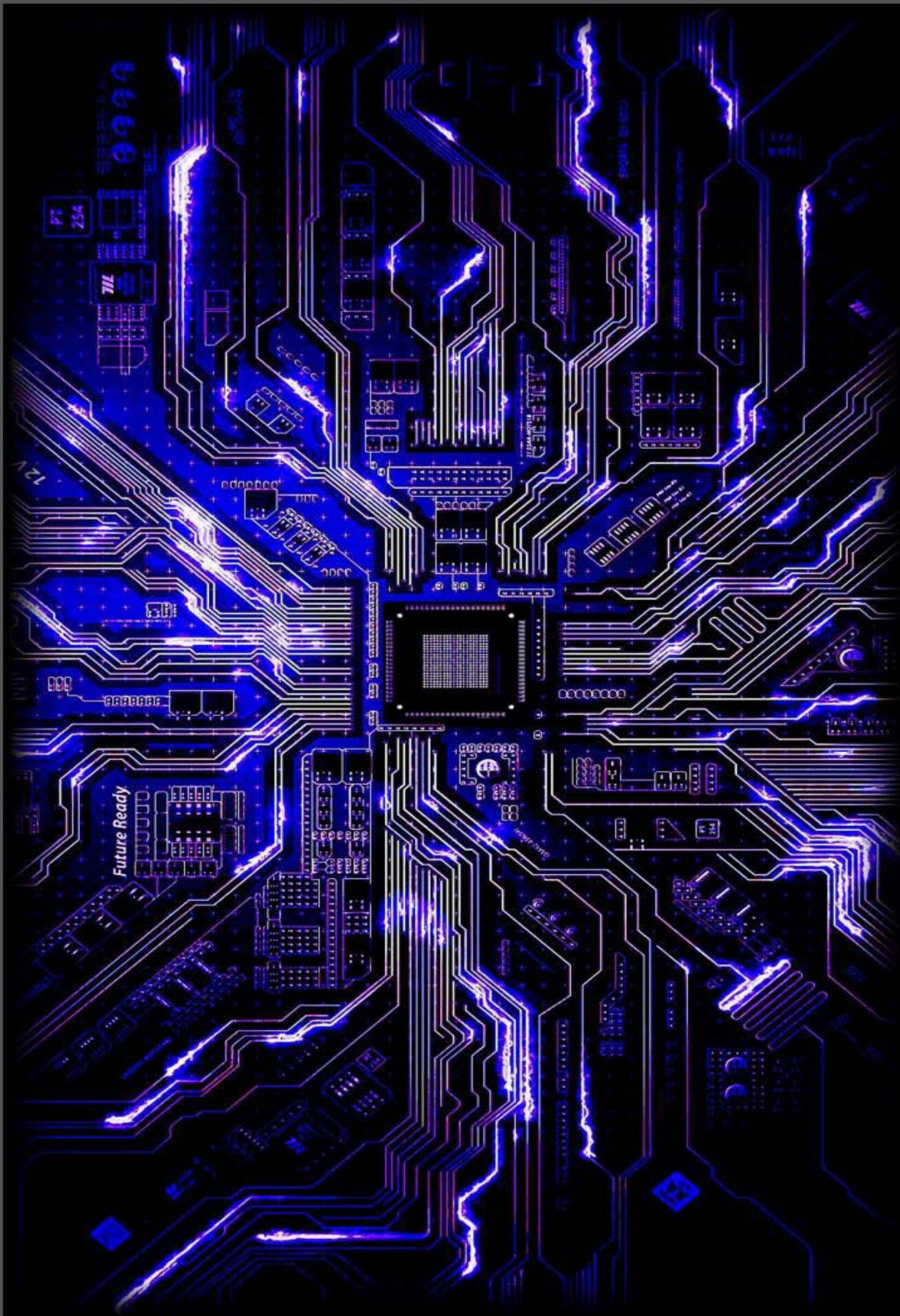
The tiniest members of the black hole family are, so far, theoretical. These small vortices of darkness may have swirled to life soon after the universe formed with the big bang, some 13.7 billion years ago, and then quickly evaporated. Astronomers also suspect that a class of objects called intermediate-mass black holes exist in the universe, although evidence for them is so far debatable.

No matter their starting size, black holes can grow throughout their lives, slurping gas and dust from any objects that creep too close. Anything that passes the event horizon, the point at which escape becomes impossible, is in theory destined for spaghettification thanks to a sharp increase in the strength of gravity as you fall into the black hole.



Simple illustration of a non-spinning black hole

Tharun Deepak.K
18A81A05E3



04 The World of Sensor

Fiber optic sensors at a glance...

A fiber optic sensor is a sensor that uses the optical fiber either as the sensing element or as a means of relaying signals from a remote sensor to the electronics that process the signals. Fibers have many uses in remote sensing.

Fiber-optic sensors are also immune to electromagnetic interference, and don't conduct electricity so they can be used in places where there is high voltage electricity or flammable material such as jet fuel. Fiber optic sensors can be designed to withstand high temperatures as well.

Do you know who discovered "fiber optics"?

Narinder Singh Kapany is an Indian-born American physicist known for his work in fiber optics. He was named as one of the "Unsung Heroes" by Fortune in their 'Businessmen of the century' issue. He is also known as "Father of Fiber optics"...

How many types of sensors are there???

Basically all types of sensors can be classified into analog and digital sensors. But, there are a few types of sensors such as temperature sensors, IR sensors, ultrasonic sensors, pressure sensors, and touch sensors are frequently used in most of the electronic applications.

History of sensors:

Over the past 60 years, fiber optic sensing (fos) has been used to enhance and test the integrity, efficiency, safety and durability of structures, vehicles etc.

The first fiber optic sensor was patented in the 1960's and relied on free space optics. Roughly 10 years later, researchers developed the first intrinsic fiber optic sensors. The use of fiber allows signals to be transmitted inside a deployable medium whereas free space optics relies on line of sight and can't be deployed in operating structures or vehicles.

In the early 1990's, the civil industry began implementing various types of fiber optic sensors in multiple applications to measure temperature, strain, pressure and more...

Principle of working:

Fiber optic sensors work based on the principle that light from a laser or any superluminescent source is transmitted via an optical fiber, experience changes in its parameters either in the optical fiber or fiber Bragg gratings and reaches a detector which measures these changes.

// Advances and real-world Applications:

Aerospace:

With thousands of sensors contained in a hair-thin fiber, fos solutions can provide a detailed picture of the health of an aircraft. For example, by using fos in aerospace, engineers can.

- Minimize aircraft downtime and fine-tune maintenance schedules
- Improve fuel consumption through intrinsically safe fuel level environment
- Monitor the shape of the wing and other deformed components
- Determine when an aircraft is reaching end-of-life
- Understand the response of complex airframes to flight conditions
- Provide in-flight feedback to control systems



Medical:

The small diameter and chemical inertness of optical shape sensors make the technology an excellent fit for medical applications.

- Benefits of using fos in the medical industry include
- Improved imaging technology in MRI systems
- Assistance with vascular procedures as well as detection to identify the severity of an artery blockage
- Determine shapes of objects during minimally invasive surgeries and probes
- Oxygen sensor
- Enable higher resolution instrument tracking while minimizing the complexity associated with traditional imaging methods
- Minimize the injection of foreign material into the body

By utilizing the fos technology, surgeons are provided with information about the location of the entire length of the instrument without the use of x-rays or ultrasound. The 3D data can be plotted in real-time and displayed visually on a monitor to show the position of the instrument



Conclusion:

So far we have observed different areas of applications of sensors. These sensors are capable of producing highly accurate results. Due to high cost now-a-days these are restricted to only specific areas. But in future we may experience the complete and highly advanced applications of this fiber sensing technology.....

Sri Vangipuram Mahati
19A81A0554



Ref. No.SVEC/CSE/Reports/2019-2020/04

CSE Progress Report from 1st March.2020 to 31st May 2020

1)Details of faculty attended FDPs, Workshops, Seminars, Conferences etc., outside the college as well as in the college:

(a) FDPs / Workshops Attended by Faculty: 126

S.No.	Name and Designation of the Faculty	Name of Workshop/Seminar/ FDP/SDP Attended	Location	No. of Days	From Date	To Date
1.	Dr.O Sri Nagesh	Cyber Security	St Mary's Group of Institutions, Guntur	6 days	28.05.2020	01.06.2020
2.	N. Hiranmayee	ATAL online FDP on Cyber Security	AICTE Training And Learning (ATAL) Academy at Jawaharlal Nehru University, New Delhi.	5 days	26.05.2020	30.05.2020
3.	A Leelavathi	AICTE Training And Learning (ATAL) Academy Online FDP on "Data Sciences	JNTUA College of Engineering, Pulivendula.	5 days	26.05.2020	30.05.2020
4.	M V V Krishna	Artificial Intelligence & its Application	Ramachandra College of Engineering, Eluru.	6 days	25.05.2020	30.05.2020
5.	A Rajesh	Prospects in Security and Privacy with Emerging Technologies	Sri Vasavi Engineering College(Autonomous), Tadepalligudem	6 days	25.05.2020	30.05.2020
6.	A Leelavathi	Prospects in Security and Privacy with Emerging Technologies	Sri Vasavi Engineering College(Autonomous), Tadepalligudem	6 days	25.05.2020	30.05.2020
7.	P Sirisha	Prospects in Security and Privacy with Emerging Technologies	Sri Vasavi Engineering College(Autonomous), Tadepalligudem	6 days	25.05.2020	30.05.2020
8.	D Sasi Rekha	Prospects in Security and Privacy with Emerging Technologies	Sri Vasavi Engineering College(Autonomous), Tadepalligudem	6 days	25.05.2020	30.05.2020

9.	M Nageswara Rao	Prospects in Security and Privacy with Emerging Technologies	Sri Vasavi Engineering College(Autonomous), Tadepalligudem	6 days	25.05.2020	30.05.2020
10.	B Kiran Kumar	Prospects in Security and Privacy with Emerging Technologies	Sri Vasavi Engineering College(Autonomous), Tadepalligudem	6 days	25.05.2020	30.05.2020
11.	P Uma Sankar	Prospects in Security and Privacy with Emerging Technologies	Sri Vasavi Engineering College(Autonomous), Tadepalligudem	6 days	25.05.2020	30.05.2020
12.	Y Divya Vani	Prospects in Security and Privacy with Emerging Technologies	Sri Vasavi Engineering College(Autonomous), Tadepalligudem	6 days	25.05.2020	30.05.2020
13.	D S L Manikanteswari	Prospects in Security and Privacy with Emerging Technologies	Sri Vasavi Engineering College(Autonomous), Tadepalligudem	6 days	25.05.2020	30.05.2020
14.	D S L Manikanteswari	ATAL FDP on Internet of Things	Indian Institute of Information Technology, Nagpur	5 days	25.05.2020	29.05.2020
15.	K Hari Krishna	ATAL FDP on Internet of Things	Indian Institute of Information Technology, Nagpur	5 days	25.05.2020	29.05.2020
16.	Dr.K Shirin Bhanu	Cloud Infrastructure and Virtualization	Institute of Aeronautical engineering	5 days	25.05.2020	29.05.2020
17.	A Leelavathi	Deep Neural Networks and Expert Systems	PSR Engineering College Tamilnadu	5 days	25.05.2020	29.05.2020
18.	B Krishna Prasad	Deep Neural Networks and Expert Systems''	PSR Engineering College, Tamilnadu	5 days	25.05.2020	29.05.2020
19.	B Krishna Prasad	ATAL FDP on AR / VR	University Institute of Engineering and Technology , Kurukshetra	5 days	25.05.2020	29.05.2020
20.	D Sasirekha	Cyber Security	Vikas College of Engineering & Technology	5 days	23.05.2020	27.05.2020
21.	Y Divya Vani	Cyber Security	Vikas College of Engineering & Technology	5 days	23.05.2020	27.05.2020

22.	M.Satyanarayana Reddy	Cyber Security	Vikas College of Engineering & Technology	5 days	23.05.2020	27.05.2020
23.	B. Madhavarao	Cyber Security	Vikas College of Engineering & Technology	5 days	23.05.2020	27.05.2020
24.	A Rajesh	Artificial Intelligence	Sir CR Reddy college of Engineering ELURU	5 days	22.05.2020	26.05.2020
25.	B Krishna Prasad	Artificial Intelligence	BVRIT College of Engineering for Women, Hyderabad	5 days	22.05.2020	26.05.2020
26.	A Leelavathi	Artificial Intelligence	Sir C.R.Reddy College of Engineering in association with National Youth Council of India and BrainOVision Solutions India Pvt. Ltd., Eluru	5 days	22.05.2020	26.05.2020
27.	M Nageswara Rao	Artificial Intelligence	Sir C.R.Reddy College of Engineering in association with National Youth Council of India and BrainOVision Solutions India Pvt. Ltd., Eluru	5 days	22.05.2020	26.05.2020
28.	B Krishna Prasad	Artificial Intelligence	Sir C.R.Reddy College of Engineering in association with National Youth Council of India and BrainOVision Solutions India Pvt. Ltd., Eluru	5 days	22.05.2020	26.05.2020
29.	G Sriram Ganesh	Artificial Intelligence	Sir C.R.Reddy College of Engineering in association with National Youth Council of India and	5 days	22.05.2020	26.05.2020

			BrainOVision Solutions India Pvt. Ltd., Eluru			
30.	Y Divya Vani	Artificial Intelligence	Sir C.R.Reddy College of Engineering in association with National Youth Council of India and BrainOVision Solutions India Pvt. Ltd., Eluru	5 days	22.05.2020	26.05.2020
31.	D S L Manikanteswari	Artificial Intelligence	Sir C.R.Reddy College of Engineering in association with National Youth Council of India and BrainOVision Solutions India Pvt. Ltd., Eluru	5 days	22.05.2020	26.05.2020
32.	Dr. D Jaya Kumari	Artificial Intelligence	Sir C.R.Reddy College of Engineering in association with National Youth Council of India and BrainOVision Solutions India Pvt. Ltd., Eluru	5 days	22.05.2020	26.05.2020
33.	Dr. G Loshma	Python Programming	Conducted by APSSDC	12 days	18.05.2020	30.05.2020
34.	B Krishna Prasad	Internet of Things(IoT)	Conducted by APSSDC	12 days	18.05.2020	30.05.2020
35.	B Sri Ramya	Python Programming	Conducted by APSSDC	12 days	18.05.2020	30.05.2020
36.	K Venkatesh	Python Programming	Conducted by APSSDC	12 days	18.05.2020	30.05.2020
37.	R L Phani Kumar	PHP & MySQL	JNTU College of Engineering, JAGTIAL	6 days	18.05.2020	23.05.2020

38.	N V Murali Krishna Raja	PHP & MySQL	JNTU College of Engineering, JAGTIAL	6 days	18.05.2020	23.05.2020
39.	D Sasi Rekha	PHP & MySQL	JNTU College of Engineering, JAGTIAL	6 days	18.05.2020	23.05.2020
40.	D Anjani Suputri Devi	PHP & MySQL	JNTU College of Engineering, JAGTIAL	6 days	18.05.2020	23.05.2020
41.	P Uma Sankar	PHP & MySQL	JNTU College of Engineering, JAGTIAL	6 days	18.05.2020	23.05.2020
42.	P Sukanya	PHP & MySQL	JNTU College of Engineering, JAGTIAL	6 days	18.05.2020	23.05.2020
43.	A Rajesh	PHP & MySQL	JNTU College of Engineering, JAGTIAL	6 days	18.05.2020	23.05.2020
44.	A Leelavathi	PHP & MySQL	JNTU College of Engineering, JAGTIAL	6 days	18.05.2020	23.05.2020
45.	A Rajesh	Big Data Tools	St Martin's Engineering College, Hyderabad	6 days	18.05.2020	23.05.2020
46.	Y Ravi Raju	Big Data Tools	St Martin's Engineering College, Hyderabad	6 days	18.05.2020	23.05.2020
47.	A Leelavathi	Big Data Tools	St Martin's Engineering College, Hyderabad	6 days	18.05.2020	23.05.2020
48.	Dr.O Sri Nagesh	Blockchain Technology	Finland Labs in Association with National Social Summit, IIT Roorkee	5 days	18.05.2020	22.05.2020
49.	S Kumar Reddy Mallidi	Introduction to Data Science	Guntur Engineering College	5 days	18.05.2020	22.05.2020
50.	A Rajesh	Artificial Intelligence & Machine Learning	CMR Technical Campus in association with AI Center of Excellence partnered with Blackbuck Engineers	5 days	18.05.2020	22.05.2020
51.	K Venkatesh	Artificial Intelligence &	CMR Technical Campus in	5 days	18.05.2020	22.05.2020

		Machine Learning	association with AI Center of Excellence partnered with Blackbuck Engineers			
52.	R L Phani Kumar	Artificial Intelligence & Machine Learning	CMR Technical Campus in association with AI Center of Excellence partnered with Blackbuck Engineers	5 days	18.05.2020	22.05.2020
53.	M Nageswara Rao	Artificial Intelligence & Machine Learning	CMR Technical Campus in association with AI Center of Excellence partnered with Blackbuck Engineers	5 days	18.05.2020	22.05.2020
54.	Y Ravi Raju	Artificial Intelligence & Machine Learning	CMR Technical Campus in association with AI Center of Excellence partnered with Blackbuck Engineers	5 days	18.05.2020	22.05.2020
55.	P Uma Sankar	Artificial Intelligence & Machine Learning	CMR Technical Campus in association with AI Center of Excellence partnered with Blackbuck Engineers	5 days	18.05.2020	22.05.2020
56.	P Sukanya	Artificial Intelligence & Machine Learning	CMR Technical Campus in association with AI Center of Excellence partnered with Blackbuck Engineers	5 days	18.05.2020	22.05.2020
57.	A Leelavathi	Artificial Intelligence & Machine Learning	CMR Technical Campus in association with AI Center of Excellence partnered with Blackbuck Engineers	5 days	18.05.2020	22.05.2020

58.	M Rama Rajeswari	Artificial Intelligence & Machine Learning	CMR Technical Campus in association with AI Center of Excellence partnered with Blackbuck Engineers	5 days	18.05.2020	22.05.2020
59.	N Hiranmayee	Cyber Security	AICTE Training And Learning (ATAL) Academy at National Institute of Technology, Warangal.	5 days	18.05.2020	22.05.2020
60.	M.Satyanarayana Reddy	Artificial Intelligence & Machine Learning using Python	Finland labs in association with IIT Roorke	5 days	18.05.2020	22.05.2020
61.	G Sriram Ganesh	Hadoop and Machine Learning	Malla Reddy Institute of Technology	3 days	18.05.2020	20.05.2020
62.	N Hiranmayee	Cyber Security	AICTE Training And Learning (ATAL) Academy at National Institute of Technical Teachers Training & Research, Chandigarh	5 days	14.05.2020	18..05.2020
63.	S Kumar Reddy Mallidi	Artificial Intelligence	Santhiram Engineering College	6 days	13.05.2020	18.05.2020
64.	B Kiran Kumar	Universal Human Values and Professional Ethics	Chebrolu Engineering College	5 days	13.05.2020	17.05.2020
65.	D Anjani Suputri Devi	Universal Human Values and Professional Ethics	Chebrolu Engineering College	5 days	13.05.2020	17.05.2020
66.	P Uma Sankar	Blockchain	Bennett University, Noida	5 days	13.05.2020	17.05.2020
67.	D Sasi Rekha	Innovation to Academicians	Ramachandra College of Enginnering, Eluru	1 Week	11.05.2020	16.05.2020
68.	B Kiran Kumar	Innovation to Academicians	Ramachandra College of Enginnering, Eluru	1 Week	11.05.2020	16.05.2020
69.	G Sriram Ganesh	Innovation to Academicians	Ramachandra College of Enginnering, Eluru	1 Week	11.05.2020	16.05.2020
70.	A Leelavathi	Innovation to Academicians	Ramachandra College of	1 Week	11.05.2020	16.05.2020

			Enginnering, Eluru			
71.	M.Satyanarayana Reddy	Innovation to Academicians	Ramachandra College of Enginnering, Eluru	1 Week	11.05.2020	16.05.2020
72.	Dr. G Loshma	ATAL FDP on Artificial Intelligence	University Institute of Engineering and Technology , Kurukshetra	5 days	11.05.2020	15.05.2020
73.	M V V Krishna	Machine Learning using Python	Finland labs in association with IIT Roorke	5 days	11.05.2020	15.05.2020
74.	N Hiranmayee	Online Teaching Etiquette and Best Practices	Santhiram Engineering College, Kurnool	6 days	10.05.2020	15.05.2020
75.	A Rajesh	Faculty Awareness Program on NAAC Accreditation	ShriChhatrapatiShiv ajiraje College of Engineering, Dhangawadi, Pune	6 days	10.05.2020	15.05.2020
76.	B Krishna Prasad	Faculty Awareness Program on NAAC Accreditation	Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune	6 days	10.05.2020	15.05.2020
77.	A Leelavathi	Faculty Awareness Program on NAAC Accreditation	Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune	6 days	10.05.2020	15.05.2020
78.	S Kumar Reddy Mallidi	ATAL FDP on Data Science	Dr Harisingh Gour University Sagar (MP)	1 Week	09.05.2020	13.05.2020
79.	K.Venkatesh	NAAC Awareness programme for Faculty	Marathwada Mitra Mandal Institute of Technology,Pune	1 Week	08.05.2020	14.05.2020
80.	A Rajesh	AICTE Margharshan FDP Programme on "Art of Writing Papers and Research Methodologies	GokarajuRangaraju Institute of Engineering & Technology, Hyderabad	1 week	07.05.2020	13.05.2020
81.	K.Venkatesh	AICTE Margharshan FDP Programme on "Art of Writing Papers and Research Methodologies"	Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad	1 week	07.05.2020	13.05.2020
82.	M Anantha Lakshmi	AICTE Margharshan FDP Programme on "Art of Writing Papers	Gokaraju Rangaraju Institute of Engineering &	1 week	07.05.2020	13.05.2020

		and Research Methodologies”	Technology, Hyderabad			
83.	N V Murali Krishna Raja	AICTE Margharshan FDP Programme on "Art of Writing Papers and Research Methodologies”	Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad	1 week	07.05.2020	13.05.2020
84.	N Hiranmayee	AICTE Margharshan FDP Programme on "Art of Writing Papers and Research Methodologies”	Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad	1 week	07.05.2020	13.05.2020
85.	A Leelavathi	AICTE Margharshan FDP Programme on "Art of Writing Papers and Research Methodologies	Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad	1 week	07.05.2020	13.05.2020
86.	D Sasi Rekha	AICTE Margharshan FDP Programme on "Art of Writing Papers and Research Methodologies	Gokaraju Rangaraju Institute of Engineering & Technology	1 week	07.05.2020	13.05.2020
87.	D Anjani Suputri Devi	AICTE Margharshan FDP Programme on "Art of Writing Papers and Research Methodologies”	Gokaraju Rangaraju Institute of Engineering & Technology	1 week	07.05.2020	13.05.2020
88.	M Rama Rajeswari	AICTE Margharshan FDP Programme on "Art of Writing Papers and Research Methodologies	Gokaraju Rangaraju Institute of Engineering & Technology	1 week	07.05.2020	13.05.2020
89.	B Sri Ramya	Internet of Things	AICTE Training And Learning (ATAL) Academy	5 days	07.05.2020	11.05.2020
90.	A Leelavathi	Data science through Python	360DigiTMG, Hyderabad	5 days	06.05.2020	10.05.2020
91.	A Rajesh	Deep Learning and its Applications	E&ICT (IIT Roorkee's)	10 days	04.05.2020	13.05.2020
92.	A Leelavathi	Deep Learning and Its Applications	E&ICT, IIT Roorkee	10 days	04.05.2020	13.05.2020
93.	M.Satyanarayana Reddy	Machine Learning and AI using Python	E&ICT, IIT Roorkee	10 days	04.05.2020	13.05.2020
94.	P Sirisha	Machine Learning and Its	E&ICT, IIT Roorkee	9 days	04.05.2020	12.05.2020

		Applications				
95.	P Sirisha	FDP on R Programming	St Josephs College, Kerala	1 Week	04.05.2020	10.05.2020
96.	R L Phani Kumar	FDP on R Programming	St Josephs College, Kerala	1 Week	04.05.2020	10.05.2020
97.	Y Divya Vani	FDP on R Programming	St Josephs College, Kerala	1 Week	04.05.2020	10.05.2020
98.	R L Phani Kumar	FDP on R Programming	St Josephs College, Kerala	1 Week	04.05.2020	10.05.2020
99.	B Krishana Prasad	FDP on R Programming	St Josephs College, Kerala	1 Week	04.05.2020	10.05.2020
100.	A Rajesh	Research Challenges and Opportunities post COVID-19	Sri Vasavi Engineering College,Tadepalligu dem	6 days	04.05.2020	09.05.2020
101.	R L Phani Kumar	Research Challenges and Opportunities post COVID-19	Sri Vasavi Engineering College,Tadepalligu dem	6 days	04.05.2020	09.05.2020
102.	Dr. V S Naresh	Research Challenges and Opportunities post COVID-19	Sri Vasavi Engineering College,Tadepalligu dem	6 days	04.05.2020	09.05.2020
103.	B Kiran Kumar	Research Challenges and Opportunities post COVID-19	Sri Vasavi Engineering College,Tadepalligu dem	6 days	04.05.2020	09.05.2020
104.	B Krishana Prasad	Research Challenges and Opportunities post COVID-19	Sri Vasavi Engineering College,Tadepalligu dem	6 days	04.05.2020	09.05.2020
105.	P Sukanya	Research Challenges and Opportunities post COVID-19	Sri Vasavi Engineering College,Tadepalligu dem	6 days	04.05.2020	09.05.2020
106.	D Sasi Rekha	Research Challenges and Opportunities post COVID-19	Sri Vasavi Engineering College,Tadepalligu dem	6 days	04.05.2020	09.05.2020
107.	D S L Manikanteswari	Research Challenges and Opportunities post COVID-19	Sri Vasavi Engineering College,Tadepalligu dem	6 days	04.05.2020	09.05.2020
108.	A Leelavathi	Research Challenges and Opportunities post COVID-19	Sri Vasavi Engineering	6 days	04.05.2020	09.05.2020

			College, Tadepalligudem			
109	K.Venkatesh	Research Challenges and Opportunities post COVID-19	Sri Vasavi Engineering College, Tadepalligudem	6 days	04.05.2020	09.05.2020
110	K Hari Krishna	ATAL FDP on Artificial Intelligence	International Institute of Information Technology, Naya Raipur	5 days	04.05.2020	08.05.2020
111	Dr. G Loshma	ATAL FDP on Data Science	Punjab Engineering college (Deemed to be university)	5 days	04.05.2020	08.05.2020
112	P Uma Sankar	Machine Learning	Optimistic.ai.solutions	5 days	04.05.2020	08.05.2020
113	K.Venkatesh	Machine Learning	Optimistic.ai.solutions	5 days	04.05.2020	08.05.2020
114	M V V Krishna	Machine Learning	Optimistic.ai.solutions	5 days	04.05.2020	08.05.2020
115	N Hiranmayee	Robotics Process Automation	Jeppiaar Institute of Technology	3 days	04.05.2020	06.05.2020
116	K.Venkatesh	Robotics Process Automation	Jeppiaar Institute of Technology	3 days	04.05.2020	06.05.2020
117	A Leelavathi	Robotics Process Automation	Jeppiaar Institute of Technology	3 days	04.05.2020	06.05.2020
118	K Venkatesh	Advanced Image Processing Techniques	Skilltohire.com	15 days	01.05.2020	14.05.2020
119	D Anjani Suputri Devi	Advanced Image Processing Techniques	Skilltohire.com	15 days	01.05.2020	14.05.2020
120	P Sireesha	Advanced Image Processing Techniques	Skilltohire.com	15 days	01.05.2020	14.05.2020
121	B Kiran Kumar	Online Training and Model Learning Management System	Sasi Institute of Technology & Engineering, Tadepalligudem	6 days	27.04.2020	02.05.2020
122	S Kumar Reddy Mallidi	ATAL FDP on Artificial Intelligence	Motilal National Institute of Technology, Allahabad	5 days	27.04.2020	01.05.2020
123	N Hiranmayee	ATAL FDP on Artificial Intelligence	Motilal National Institute of Technology, Allahabad	5 days	27.04.2020	01.05.2020
124	N Hiranmayee	ATAL FDP on Internet of Things	Indian Institute of Information	5 days	25.04.2020	029.05.2020

			Technology, Nagpur			
125	G Saraswathi	Faculty Development Program on Digital image processing using mat lab	Skilltohire.com	4 days	25.04.2020	29.04.2020
126	S Kumar Reddy Mallidi	Blockchain Technology	E&ICT- IIT Roorkee	8 days	21.04.2020	28.04.2020

(b) Certification Programmes attended by Faculty:

S.No	Name of the Faculty	Name of the Certification course Attended	Certification Authority	Duration	Date of Completion
1	Dr. K Shirin Bhanu	Neural Networks and Deep Learning	Coursera	4 weeks	28.05.2020
2	Dr. K Shirin Bhanu	Machine Learning for All	Coursera	4 weeks	28.05.2020
3	Dr. K Shirin Bhanu	AI for Everyone	Coursera	4 weeks	28.05.2020
4	Dr. G Loshma	Machine Learning for All	Coursera	4 weeks	28.05.2020
5	G Sriramganesh	Linux Essentials	CISCO Networking Academy	70 Hrs.	27.05.2020
6	Dr. G Loshma	AI for Everyone	Coursera	4 weeks	25.05.2020
7	G SriramGanesh	Human Emotion in Devices and Technology	IEEE	3hr	24.05.2020
8	Dr. G Loshma	Programming for Everybody (Getting started with Python)	Coursera	7 Weeks	23.05.2020
9	Dr. K Shirin Bhanu	Programming for Everybody (Getting started with Python)	Coursera	7 Weeks	22.05.2020
10	Dr. G Loshma	Coursera Administrator Training	Coursera	1 Hour	21.05.2020
11	G SriramGanesh	Enterprise Blockchain for Grid Modernization	IEEE	3hr	19.05.2020

12	G SriramGanesh	Designing Security Solutions for Edge, Cloud, and IoT	IEEE	3hr	16.05.2020
13	Dr. K Shirin Bhanu	Introduction to Data Science	Alison	5 Hours	15-05-2020
14	G SriramGanesh	Enterprise Blockchain for the Internet of Things	IEEE	3hr	12.05.2020
15	Dr. K Shirin Bhanu	Data Visualization using Python	Great Learning Academy	2 Hours	11-05-2020
16	G Sriramganesh	Introduction to IoT	CISCO Networking Academy	20 Hrs.	10.05.2020
17	Dr. K Shirin Bhanu	Python for Machine Learning	Great Learning Academy	5 Hours	10-05-2020
18	G Sriramganesh	Cyber Security awareness and Innovation	Coursera	4 weeks	10.05.2020
19	A.Rajesh	The Complete Junior to senior web Developer Roadmap	Udemy	35.5 Hrs.(4 Weeks)	04.05.2020
20	A.Leelavathi	The Complete wordpress website Business course	Udemy	21.5 Hrs.	04.05.2020
21	K Venkatesh	Introduction to IoT	CISCO Networking Academy	20 Hrs.	04.05.2020
22	K Venkatesh	Introduction to Cyber Security	CISCO Networking Academy	20 Hrs.	03.05.2020
23	B Sri Ramya	Advanced Java Programming	Udemy	8 Hours	03.05.2020
24	A.Rajesh	Software Development Processes and Methodologies	Coursera	4 weeks	03.05.2020
25	A.Rajesh	Python OOP: Four Pillars of OOP in Python 3 for Beginners	Udemy	2.5 Hrs.	01.05.2020
26	M.Satyanarayana Reddy	Practical Latex	Udemy	6 Hrs.	30.04.2020

27	M.Satyanarayana Reddy	Network Simulation using NS2	Udemy	3.5 Hrs.	30.04.2020
28	K.Venkatesh	Introduction to Machine Learning for Data Science	Udemy	5.5 Hrs.	30.04.2020
29	A.Leelavathi	Introduction to Machine Learning	Coursera	4 Weeks	30.04.2020
30	A.Leelavathi	Python OOP: Four Pillars of OOP in Python 3 for Beginners	Udemy	2.5 Hrs.	30.04.2020
31	G Sriram Ganesh	Introduction to Cyber Security	CISCO Networking Academy	15 Hrs.	30.04.2020
32	P. Uma Sankar	Advanced Java Programming	Udemy	8 Hrs.	29.04.2020
33	Dr. D Jaya Kumari	Introduction to Machine Learning	Coursera	4 Weeks	29.04.2020
34	Dr. D Jaya Kumari	Linux Essentials	CISCO Networking Academy	70 Hrs.	29.04.2020
35	Dr. K Shirin Bhanu	Getting started with the AWS cloud essentials	AWS	1 Hour	29-04-2020
36	Dr. K Shirin Bhanu	How to produce highly visible research: Useful Tips for researchers	Elsevier Researcher Academy Module	1 hour	29.04.2020
		The key to successful academic collaborations		1 hour	
37	Dr. K Shirin Bhanu	How to conduct evidence-based research	Elsevier Researcher Academy Module	1 hour	28.04.2020
38	Dr. G Loshma	3.3 How to peer review a review article	Elsevier Researcher Academy Module	1 hour	21.04.2020
39	Dr. G Loshma	The key to successful academic collaborations		1 hour	
40	Dr. G Loshma	How to produce highly visible research: Useful Tips for researchers		1 hour	

41	Dr. G Loshma	How to secure funding-ECR Edition		1 hour	
42	Dr. G Loshma	How to conduct evidence-based research		1 hour	
43	Dr. K Shirin Bhanu	Guide to reference Managers: How to effectively manage your references	Elsevier Researcher Academy Module	1 hour	21.04.2020

2. Important Visitors to the Department:

S.No	Name of Eminent Guest	Organization	Date(s) of Visit
1.	Dr.Krishna Mohan Ankala	Professor, Department of CSE, University College of Engineering, JNTUK, Kakinada.	31.05.2020
2.	Dr. R.B.V. Subramanyam	Professor, Department of CSE, NIT Warangal.	31.05.2020
3.	Dr. S. Pallam Setty	Professor, Department of CSE, Andhra University	31.05.2020
4.	Sri. Srinivasa Raju Vuppalapati	Senior Consultant, MSRIT Solutions, Hyderabad	31.05.2020
5.	Mr.EEdala Rambabu,	Micro Focus, Member of Technical Staff 2 Bangalore.	31.05.2020

3. FDP 's Conducted by the Department:01

S.No	Date	Title	Audience	No of Faculty participated
1.	25.05.2020 to 30.05.2020	FDP on "Prospects in Security and Privacy with Emerging Technologies"	Faculty	206

4) (a) Papers Published/ Presented In Conferences:

S.No.	Name of the Staff	Designation	Title of the Publication	Publication Details	INDEXING SCI/SCOPUS/UGC / OTHERS
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1.	Ms.A.Leelavathi	Sr.Assistant Professor	Automation of Placement and Club Activities through a Centralized Web Portal by using MEANSTACK Technology	Journal of Software Engineering & Software Testing Volume 5 Issue 1 ISSN: 2457- 0516 (Online), May 5th 2020.	UGC
	Mr.A.Rajesh	Assistant Professor			
2.	Dr.SP.Malarvizhi	Associate Professor	House Price Prediction Modeling Using Machine Learning	International Journal of Information Engineering and Electronic Business(IJIEEB), Vol.12, No.2, pp. 15-20, ISSN: 2074-9031 (Online)2020. DOI: 10.5815/ijieeb.2020.02.03, 2nd April 2020.	UGC

b) Books / Chapters Published by Faculty: 01

S.No.	Name of the Faculty	Title of the Book / Chapters
1	Dr. O Sri Nagesh Dr.V.S.Naresh	Public Auditing Technique for Securing Privacy in Cloud Storage: ISBN: 978-620-2-52368-4, LAMBERT ACADEMIC PUBLICATIONS, 09.04. 2020.

5) Under Department Association SCUD the following events are conducted:

- Farewell-2K20 was conducted on 13.03.2020.
- Management Distributed the cash awards an amount of Rs. 74,250/- for II-II, III-I, III-II, IV-I Academic Toppers of 2018-19 A.Y. on 13.03.2020.



6) Student Achievements:

a) Certification Details (UDEMY, COURSERA, E-Boxetc.)

S.No.	Roll Number	Name of the Student	Name of The Event	Month-Date
1	17A81A0532	Leela Sree Bhavani Oduri	Java Basics for Beginners:Learn Java Fundamentals by Coding	01.05.2020 -5.05.2020
2	17A81A0552	Vempati . Manasa Sri Shanmukhi	Machine learning using python	07.04.2020-14.04.2020
3	17A81A0516	Goteti B S Y Vasudeva Rao	Java Basics for Beginners: Learn Java Fundamentals by Coding	28.04.2020- 12.05.2020
4	17A81A0552	Vempati . Manasa Sri Shanmukhi	Machine learning using python	07.04.2020-14.04.2020
5	17A81A0559	Bollam Vamsi Krishna	1.Learn Basic Html5:	26.05.2020

			2.Unix command course for beginner 3.Python for beginners	27.05.2020 29.05.2020
6	17A81A0565	Ghanta Premchandu	1. Java Basics for beginners learn Java fundamentals by coding 2. How to built chatboat	May25,2020 May30,2020
7	17A81A0573	Lavanya Kadali	python for data science	17.05.2020
8	17A81A0577	Koppineedi Navya Satya Sri	Creating logo animation with Adobe by Udemey	16.06.2020
9	17A81A0578	Kora Hema Anantha Satya Sai Durga	Introducing coding for beginners:an html and CSS	22.05.2020
10	17A81A0584	Matta Ambika	1.Learn JavaScript-For Begineers 2.Learn Microsoft Excel 3.JavaScript+ES6+ES7+ES8+ES9 4.The Angular Course, 5.React Beginners Bootcamp, 6.Microsoft Word 7.Python 101 for Data Science 8.Digital Marketing Tools Mastery, 9Facebook Ads Mastery	07.06.2020 21.05.2020 17.05.2020 15.05.2020 21.05.2020 17.05.2020 29.05.2020 30.05.2020
11	17A81A0587	Mullapudi Pooja	Cognitive python	15.5.2020 -16.5.2020
12	17A81A0591	P Jeevan Redy	Java Basics for Beginners by E-box	01.05.2020 – 10.05.2020
13	17A81A0598	Reddy Akanksha	Java Basics for Beginners by E-box	01.05.2020 – 10.05.2020
14	17A81A05A2	Teja Sri	Java Basics for Beginners by E-box	01.05.2020 - 10.05.2020
15	17A81A05A6	Sunkara Jaswanth	Android application development ,	15.05.2020 – 16.06.2020
16	17A81A05A7	Tejaswini Sunkavalli	1.Android App Development Training(Internshala), 2. Java basics for beginners(E-box) 3. Python(Guvi) 4. Communication Skills by (TCS iON)	15.05.2020 – 16.06.2020 01.05.2020 - 10-05-2020 June 2020 03.04.2020 – 10.04.2020
17	17A81A05A8	Tadi Krishna Sudheer	Java Basics for Beginners by E-box	01.05.2020 - 10-05-2020
18	18A81A05H4	Varikuti Lakshmi Sai Prasanna	Career Edge –Knockdown the lockdown by TCSiON	03.05.2020 - 16.05.2020
19	18A81A0577	Sravya I	Practical Java Course	05.06.2020
20	18A81A0577	Sravya I	Career Edge –Knockdown the lockdown by TCSiON	13.05.2020 - 07.06.2020
21	17A81A05E0	Matta Hemanth	EBOX Certification	27.04.2020 - 12.05.2020
22	17A81A05E4	M.N.S.Amrutha	EBOX Certification	30.04.2020 - 09.05.2020

		Varshini		
23	17A81A05B4	Addanki Sai Swapna	Complete MySQL course:Beginner to Advanced-Udemy	04.06.2020
24	17A81A05B4	Addanki Sai Swapna	Step into RPA(online course)	16.06.2020
25	17A81A05B4	Addanki Sai Swapna	Game development using PyGame(online course)	16.06.2020
26	17A81A05E2	M.Yaswanth Kumar	Python Basics for Beginners: Learn python fundamentals by coding -EBox	May 2020
27	17A81A05D0	Srija Ganta	Problem solving using python by E-Box	07.05.2020-20.05.2020
28	17A81A05D0	Srija Ganta	Java Basics for Beginners: Lear java fundamentals by coding -EBox	May 2020
29	17A81A05D8	Manthena Sai Praneetha	Cyber security incident handling and response	16.06.2020
30	17A81A05D8	Manthena Sai Praneetha	Python by Guvi	05.06.2020
31	17A81A05E8	Perumalla.Dhanalakshmi naga anusha	Java Basics for Beginners: Learn java fundamentals by coding -EBox	May 2020
32	17A81A05E0	Matta Hemanth	Java Basics for Beginners: Learn java fundamentals by coding -EBox	May 2020
33	17A81A05E0	Matta Hemanth	Python Basics for Beginners: Learn python fundamentals by coding -EBox	May 2020
34	17A81A05E0	Matta Hemanth	Python by Guvi	16.05.2020
35	17A81A05E0	Matta Hemanth	Python by Guvi	16.05.2020
36	17A81A05B4	Addanki Sai Swapna	Game Development using Python-GUVI	16.06.2020
37	17A81A05B4	Addanki Sai Swapna	Complete MySQL course:Beginner to Advanced - Udemy	04.06.2020
38	17A81A05B4	Addanki Sai Swapna	Step into RPA	16.06.2020
39	17A81A05K2	Orugu Triveni	"Java Basics for Beginners: Learn Java Fundamentals by Coding" – E-Box	May 2020
40	17A81A05j7	Manikireddi Dharani	"Java Basics for Beginners: Learn Java Fundamentals by Coding" – E-Box	May 2020

41	17A81A05j6	Manepalli Geetha Madhuri	"Java Basics for Beginners: Learn Java Fundamentals by Coding" – E-Box	May 2020
42	17A81A05I7	Kancherla Sahithi Chandra Tejaswini	"Java Basics for Beginners: Learn Java Fundamentals by Coding" – E-Box	May 2020
43	17A81A05I1	Garre Praveena Vardhini	"Java Basics for Beginners: Learn Java Fundamentals by Coding" – E-Box	May 2020
44	17A81A05H5	Burugula Umasri Sravy	"Java Basics for Beginners: Learn Java Fundamentals by Coding" – E-Box	May 2020
45	17A81A05H3	Bhogaraju L N Lalitha Prabha	"Java Basics for Beginners: Learn Java Fundamentals by Coding" – E-Box	May 2020
46	17A81A05H1	Bandaru Sudheer Durga Nagendra	"Java Basics for Beginners: Learn Java Fundamentals by Coding" – E-Box	May 2020
47	17A81A05G9	Atyam N V S S S L Ramya	"Java Basics for Beginners: Learn Java Fundamentals by Coding" – E-Box	May 2020
48	17A81A05J8	Siri Chandana Mudragada	"Java Basics for Beginners: Learn Java Fundamentals by Coding" – E-Box	May 2020
49	17A81A05H6	Challa Venkata Sai Ram	"Java Basics for Beginners: Learn Java Fundamentals by Coding" – E-Box	May 2020
50	17A81A05K0	Jayanth Nepala	"Java Basics for Beginners: Learn Java Fundamentals by Coding" – E-Box	May 2020
51	17A81A05J5	Gopi Krishna Vikas Mallareddy	PCAP: Programming Essentials in Python	14.05.2020

b) Workshops Attended By Students

S.No	Regd.No.	Name of the Student	Name of the Event	Month-Date
1	16A81A05C3	Sai Venkata Ganesh Bhimuni	Arduino Programming and Internet of Things held at Bennett University, Greater Noida conducted by leadingIndia.ai	20.05.2020 – 24.05.2020
2	18A81A05J8	Gayatri Kalla	Arduino Programming and Internet of Things held at Bennett University, Greater Noida conducted by leadingIndia.ai	20.05.2020 – 24.05.2020
3	18A81A05H4	Varikuti Lakshmi Sai	Arduino Programming and Internet of Things held at Bennett	20.05.2020 –

		Prasanna	University, Greater Noida conducted by leadingIndia.ai	24.05.2020
4	17A81A05E0	Matta Hemanth	Java ebox, python ebox, guvi RPA, guvi python, Google kick	April 2020- May 2020
5	17A81A0552	Vempati . Manasa Sri Shanmukhi	Cloud Computing	01.04.2020 – 15.05.2020
6	17A81A0552	Vempati . Manasa Sri Shanmukhi	AWS workshop	04.05.2020 – 07.05.2020
7	17A81A0562	D Gayathri	Java programming workshop held at Bennett University, Greater Noida conducted by leadingIndia.ai	20.05.2020 – 24.05.2020
8	17A81A0563	Dasari Tejaswini	IoT using Arduino Programming,	20.05.2020 – 24.05.2020
9	17A81A0567	Golisetti Mounika	Workshop On JAVA Programming	20.05.2020 – 27.05.2020
10	17A81A0584	Matta Ambika	Java programming workshop held at Bennett University, Greater Noida conducted by leadingIndia.ai	20.05.2020 – 24.05.2020
11	17A81A05A8	Tadi Krishna Sudheer	Java programming workshop held at Bennett University, Greater Noida conducted by leadingIndia.ai	20.05.2020 – 24.05.2020
12	18A81A05A3	Suneesha Sanaboina	Java programming workshop held at Bennett University, Greater Noida conducted by leadingIndia.ai	20.05.2020 – 24.05.2020

7) **Sahaya:** As part of Sahaya the following list of events are conducted:

S.No	Date	Service Activity Details	Venue
1.	17.04.2020	Funded an amount of Rs.1,04,000/- to Mr. Narasimha suffering with kidney failure for his treatment..	Sri Vasavi Engg. College, TPG

8) **Placements:** The following students have been placed in the A.Y:2019-20.

S.No	Roll Number	Name	Company
1	16A81A0540	PATNALA RAM CHARAN	ACXIOM
2	16A81A0554	TUMMAPUDI JEEVAN KUMAR	ACXIOM
3	16A81A05J9	KANASANI LAKSHMI VINAY	ACXIOM
4	16A81A05N5	VARDHINEEDI MAHALAKSHMI	AMAZON
5	16A81A05I0	VEMAVARAPU SATYA DURGA	CTS
6	16A81A0506	BATTULA JAYASREE	CTS
7	16A81A05G7	PARIMI DEVI NAGA AMRUTHA	CTS
8	16A81A0597	KUCHIPUDI BHAGYASREE	EFFECTRONICS
9	16A81A0536	PALETI BHAVANI	HCL
10	16A81A0579	DASARI PAVANI	HCL
11	16A81A0581	DEVARAKONDA BHARATHI	HCL
12	16A81A05A1	MEDURI SRI MAHI	HCL
13	16A81A05A6	NARAYANA BHAGYA LAKSHMI	HCL
14	16A81A05B0	PACHIPULUSU.ROSHINI	HCL
15	16A81A05B4	RUDRARAJU HEMA BINDU	HCL
16	16A81A05F5	KOTTA APARNA LAKSHMI	HCL
17	16A81A05G8	PARIMI YAMINI SARASWATHI	HCL
18	16A81A05L0	NALLURI NAGA DEVI LAKSHMI KATAKSHAM	HCL
19	16A81A05M6	SADHANALA LAVANYA RUPA SRI	HCL
20	16A81A05N3	VAKACHARLA CHANDRA VEERA LAKSHMI MOUNIKA	HCL
21	16A81A05H8	VARADA SAI DURGA NEELIMA ALEKHYA	HCL
22	16A81A05G5	PALAPARTHI VENKATA MOUNIKA	HCL
23	16A81A0583	GALAVILA TEJA	HCL
24	16A81A0528	M.BHANU SRI	HCL
25	16A81A05D6	GRANDHAM BALLYARADHITHA	HCL
26	16A81A05L3	PENTAPATI DURGA SWATHI	HCL
27	16A81A0561	AINAPUDI SAI LAKSHMI	HCL
28	16A81A05A0	MEDURI HIMASRI	HCL
29	16A81A05M8	SHAIK AMMAJI	HCL
30	16A81A05C0	VELAGALA LAKSHMI SUNANDA PRASANNA	HCL
31	16A81A0538	DIVYA SRI PASUMARTHI	HCL
32	16A81A05I8	CHERLAMCHERLA VASANTHA LAKSHMI	HCL

33	16A81A0597	KUCHIPUDI BHAGYASREE	HCL
34	16A81A0531	MALLAVARAPU LAKSHMIDURGA	HCL
35	16A81A05M5	SABELLA LAKSHMI KEERTHI	HEXAWARE
36	16A81A05N0	TAKASI NEELIMA NAIDU	HEXAWARE
37	16A81A0597	KUCHIPUDI BHAGYASREE	IBM
38	16A81A0530	MADHURIMA MAJETI	IBM
39	16A81A05E8	KALNEEDI YAMINI SAILAJA	IBM
40	16A81A0506	BATTULA JAYASREE	IBM
41	16A81A0541	PEDAPUDI PRANEELA	IBM
42	16A81A05H9	VELAGALA MEGHANA	IBM
43	16A81A0535	MOKA LAKSHMI SAILAJA	IBM
44	17A85A0502	GANUSULA ROJA RANI	INFOSYS-SE
45	16A81A0513	GADUGOYYALA H V V SATYANARAYANA	INFY-TQ
46	16A81A0563	ALLURI SAISWETHA	INFY-TQ
47	16A81A0590	JAMPANA SAILAJA	INFY-TQ
48	16A81A05A2	BHANU VENKATA MANIKANTA MOTUPALLI	INFY-TQ
49	16A81A0582	DUDE NAVEEN KUMAR	INFY-TQ
50	16A81A05B9	VEGIRAJU KALYAN VENKATA RAMA SUNIL VARMA	INFY-TQ
51	16A81A0576	CHORAGUDI VENKATA MANIKANTA MANOHAR	INFY-TQ
52	16A81A0570	BALAGAM SATYA NAGA DURGA BHAVANI	INFY-TQ
53	16A81A0586	GELLI SRI LOHITH	INFY-TQ
54	16A81A05M1	PUTTA PAVAN	INFY-TQ
55	16A81A05N5	VARDHINEEDI MAHALAKSHMI	INFY-TQ
56	16A81A0523	KONDEPATI RAM CHANDU	JUSTDIAL
57	16A81A0575	CH S V R K REDDY	JUSTDIAL
58	16A81A0599	MATSSA CHAITANYA JYOTHI SWAROOP	JUSTDIAL
59	16A81A05J2	GADHAMSETTY NAGENDRA LAKSHMAN SAI	JUSTDIAL
60	16A81A05K5	MEDA SHANUMUKHA SAI PRADEEP	JUSTDIAL
61	16A81A0583	GALAVILA TEJA	L&T
62	16A81A0505	B.VIHITHA	L&T
63	16A81A0520	KARPURAPU VISWA SAI	L&T
64	16A81A0543	SNEHITHA PENUGONDA	L&T
65	16A81A0580	DATTI.NAGA HARI KEERTHANA	L&T
66	16A81A05F9	MAREEDU KRISHNA RAO	L&T
67	16A81A05G3	NEELI USHACHINMAISAI	L&T
68	16A81A05H6	J V SATYA PRAKASH UPPALA	L&T
69	17A85A0504	P V V N D S S B VALLI	L&T
70	16A81A05E9	KAMISSETTY GANESH KUMAR	L&T
71	16A81A0517	GNANADRUSTI SUVARCHALA	MIRACLE(RECRUITMENT)
72	16A81A0587	G V R KAMAL CHANDRA	MIRACLE(RECRUITMENT)
73	16A81A0582	DUDE NAVEEN KUMAR	MPHASIS
74	16A81A05B9	VEGIRAJU KALYAN VENKATA RAMA SUNIL VARMA	MPHASIS
75	16A81A0576	CHORAGUDI VENKATA MANIKANTA MANOHAR	MPHASIS
76	16A81A0503	B.YAMINI SESHAKALA	MPHASIS

77	16A81A0507	CH LAKSHMI BHAVANI	MPHASIS
78	16A81A0508	CH.LAKSHMI SUDEEPA	MPHASIS
79	16A81A0526	K.CHAITANYA LAHARI	MPHASIS
80	16A81A0527	HEMASUPRIYA MADDU	MPHASIS
81	16A81A0534	MANDAPAKA PAVAN KUMAR	MPHASIS
82	16A81A0537	PASALA ACHYUTHA DIVYA	MPHASIS
83	16A81A0539	PATHAN SALMA BEGUM	MPHASIS
84	16A81A0544	PILLALAMARRI SURYA KANTH	MPHASIS
85	16A81A0572	BETHA KAMALA	MPHASIS
86	16A81A05C2	BANDI DEVI SUREKHA	MPHASIS
87	16A81A05D1	DAMARAJU LAKSHMI PRASANNA	MPHASIS
88	16A81A05D2	EPPILI HEMA LATHA	MPHASIS
89	16A81A05D4	GOLUGURI SUBBAREDDY	MPHASIS
90	16A81A05D7	GUDIMETLA YUVA SRI DURGA	MPHASIS
91	16A81A05F1	RAMYA SRI	MPHASIS
92	16A81A05F4	KOMMURI NAGA SRIDEVI DIVYA	MPHASIS
93	16A81A05G2	MUTTA JNANA MANI MEGHANA	MPHASIS
94	16A81A05I1	ADDAGALLA PAVANI	MPHASIS
95	16A81A05I3	ALAPATI RAMA DURGA	MPHASIS
96	16A81A05I5	BODDEDA SRIRAM	MPHASIS
97	16A81A05J7	KADULURI SATYASRI	MPHASIS
98	16A81A0541	PEDAPUDI PRANEELA	MPHASIS
99	16A81A05H9	VELAGALA MEGHANA	MPHASIS
100	16A81A05K3	KONDA SAI VINAY	MPHASIS
101	16A81A05B6	THONTA LAKSHMI SOWMYA	MPHASIS
102	16A81A05N4	VARADA NAVYA SRI LATHA	MPHASIS
103	16A81A05A3	MYLAVARAPU SONIKA	MPHASIS
104	16A81A05M9	SHAIK SABEEN	MPHASIS
105	16A81A0588	GRANDHI YAMINI VENKATA SAI PADMA NAVYA SRI	MPHASIS
106	16A81A05L6	PERUMALLA RUPA SAI GAYATHRI	MPHASIS
107	16A81A05L8	PRATHI MADHU ANNA PURNA	MPHASIS
108	16A81A05B5	TANUKU AMARESHWARI	MPHASIS
109	16A81A0528	M.BHANU SRI	PENNANT
110	16A81A05D6	GRANDHAM BALLYARADHITHA	PENNANT
111	16A81A05H1	RAJULAPATI HEMASAI	PENNANT
112	16A81A05E4	SRIDEVI JAYAVARAPU	Q -CONNEQT
113	16A81A05K4	LAKKA BHAVANI SHANKAR	Q -CONNEQT
114	16A81A05L5	PERICHARALA PRAJNA DEVI	Q -CONNEQT
115	16A81A0510	CHOPPERLA SRI VIJAYA VYSHNAVI	Q -CONNEQT
116	16A81A05C0	VELAGALA LAKSHMI SUNANDA PRASANNA	SERVICENOW
117	16A81A05B6	THONTA LAKSHMI SOWMYA	SERVICENOW
118	16A81A0588	GRANDHI YAMINI VENKATA SAI PADMA NAVYA SRI	SERVICENOW
119	16A81A05B5	TANUKU AMARESHWARI	SERVICENOW
120	16A81A05J1	ETHAKOTA PAVANI SAI SIRISHA	SERVICENOW

121	16A81A05C6	B.V.L.R.ANJALI	SERVICENOW
122	16A81A05L3	PENTAPATI DURGA SWATHI	SERVICENOW
123	16A81A0510	CHOPPERLA SRI VIJAYA VYSHNAVI	SUTHERLAND
124	15A81A05N7	V JAVERI SUMANJARI	SUTHERLAND
125	16A81A0593	KARINKI PAVAN KUMAR	SUTHERLAND
126	16A81A05c3	BHEMURI SAI VENKATA GANESH	SUTHERLAND
127	16A81A0514	BETHIREDDY VENU DANESWARI	SUTHERLAND
128	16A81A05M2	RAGOLU SAI BALAJI	SUTHERLAND
129	16A81A05M3	SIRISHA RANI RALI	SUTHERLAND
130	16A81A05G7	PARIMI DEVI NAGA AMRUTHA	SUTHERLAND
131	16A81A0512	DUSANAPUDI GITHA SREE	SUTHERLAND
132	16A81A05N8	YANDAPALLI PRIYA MANASA	SUTHERLAND
133	16A81A0561	AINAPUDI SAI LAKSHMI	TCS NINJA
134	16A81A05A0	MEDURI HIMASRI	TCS NINJA
135	16A81A05M8	SHAIK AMMAJI	TCS NINJA
136	16A81A05C0	VELAGALA LAKSHMI SUNANDA PRASANNA	TCS NINJA
137	16A81A0582	DUDE NAVEEN KUMAR	TCS NINJA
138	16A81A05K3	KONDA SAI VINAY	TCS NINJA
139	16A81A05A3	MYLAVARAPU SONIKA	TCS NINJA
140	16A81A05M9	SHAIK SABEEN	TCS NINJA
141	16A81A0588	GRANDHI YAMINI VENKATA SAI PADMA NAVYA SRI	TCS NINJA
142	16A81A0522	KOMMIREDDY SIVA PRASAD	TCS NINJA
143	16A81A0562	AKKINA LAKSHMI SANDEEPTHI	TCS NINJA
144	16A81A0577	DAMMALAPATI BHANU PRAKASH	TCS NINJA
145	16A81A0598	MADETI HEMASRI	TCS NINJA
146	16A81A05J6	KADALI KRISHNA SAI VAMSI	TCS NINJA
147	16A81A0535	MOKA LAKSHMI SAILAJA	TCS NINJA
148	16A81A05B7	U.SAI ALEKHYA	TCS NINJA
149	16A81A05J1	ETHAKOTA PAVANI SAI SIRISHA	TCS NINJA
150	16A81A0576	CHORAGUDI VENKATA MANIKANTA MANOHAR	TCS NINJA
151	16A81A0570	BALAGAM SATYA NAGA DURGA BHAVANI	TCS-CODEVITA
152	16A81A0586	GELLI SRI LOHITH	TCS-CODEVITA
153	16A81A05M1	PUTTA PAVAN	TCS-CODEVITA
154	16A81A05N5	VARDHINEEDI MAHALAKSHMI	TCS-CODEVITA
155	16A81A05B9	VEGIRAJU KALYAN VENKATA RAMA SUNIL VARMA	TCS-CODEVITA
156	16A81A05B6	THONTA LAKSHMI SOWMYA	TCS-CODEVITA
157	16A81A05L6	PERUMALLA RUPA SAI GAYATHRI	TCS-CODEVITA
158	16A81A05L8	PRATHI MADHU ANnapurna	TCS-CODEVITA
159	16A81A05B5	TANUKU AMARESHWARI	TCS-CODEVITA
160	16A81A0516	SRI KRISHNA CHAITANYA GHANTASALA	TCS-CODEVITA
161	16A81A0547	VENKATA RENUKAI AH SANAKA	TCS-CODEVITA
162	16A81A0556	VASIREDDY LAVANYA	TCS-CODEVITA
163	16A81A0573	BIKKINA DHARANI	TCS-CODEVITA
164	16A81A0594	KARRI MAYURA	TCS-CODEVITA

165	16A81A05A8	N.MUTHYA SRAVANI	TCS-CODEVITA
166	16A81A05C7	CHENNAMSETTI MOUNIKA	TCS-CODEVITA
167	16A81A05L2	VAMSI KIRAN PEDAGADI	TCS-CODEVITA
168	16A81A05M4	S HARSHINI SAI	TCS-CODEVITA
169	16A81A05N6	VASA RAMA LEELA SAI	TCS-CODEVITA
170	16A81A05C6	B.V.L.R.ANJALI	TCS-CODEVITA
171	16A81A0538	DIVYA SRI PASUMARTHI	TECHMAHINDRA
172	16A81A0518	CHERLAMCHERLA VASANTHA LAKSHMI	TECHMAHINDRA
173	16A81A0512	DUSANAPUDI GITHA SREE	TECHMAHINDRA
174	16A81A05N8	YANDAPALLI PRIYA MANASA	TECHMAHINDRA
175	16A81A0504	BALUSU RAMYA	TECHMAHINDRA
176	16A81A0567	ANUMAKONDA HEMA SRI LAKSHMI	TECHMAHINDRA
177	16A81A05A5	NANDETI SRAVANI	TECHMAHINDRA
178	16A81A05D0	CHITTURI SAI PRASANNA	TECHMAHINDRA
179	16A81A05F8	RAVALI MARADANA	TECHMAHINDRA
180	16A81A05L9	PRATHIPATI SRAVANI	TECHMAHINDRA
181	16A81A0532	LOLITHA PRIYA.MANCHI	TECHMAHINDRA
182	16A81A05H8	VARADA SAI DURGA NEELIMA ALEKHYA	TECHTAMMINA
183	16A81A0583	GALAVILA TEJA	VIRTUSA
184	16A81A05N4	VARADA NAVYA SRI LATHA	VIRTUSA
185	16A81A0531	MALLAVARAPU LAKSHMIDURGA	WEB SYNERGIES
186	16A81A05L3	PENTAPATI DURGA SWATHI	WEB SYNERGIES
187	16A81A05G5	PALAPARTHI VENKATA MOUNIKA	WIPRO
188	16A81A05N0	TAKASI NEELIMA NAIDU	WIPRO
189	16A81A05E9	KAMISSETTY GANESH KUMAR	WIPRO
190	16A81A05L8	PRATHI MADHU ANnapurna	WIPRO
191	16A81A05B7	U.SAI ALEKHYA	WIPRO
192	16A81A0532	LOLITHA PRIYA.MANCHI	WIPRO
193	16A81A0552	THOTA LAKSHMI SUDEEPTHI	WIPRO
194	16A81A0583	GALAVILA TEJA	WIPRO
195	16A81A05D1	DLPRASANNA	WIPRO
196	16A81A0541	P.PRANEELA	WIPRO
197	16A81A0535	M. LAKSHMI SAILAJA	WIPRO
198	16A81A05J1	ETHAKOTA PAVANI SAI SIRISHA	WIPRO
199	16A81A05C0	VELAGALA LAKSHMI SUNANDA PRASANNA	WIPRO
200	16A81A05D7	GUDIMETLA YUVA SRI DURGA	WIPRO
201	16A81A05C6	BUDDANA VENKATA LAKSHMI RAGHAVA ANJALI	WIPRO
202	16A81A0556	VASIREDDY LAVANYA	WIPRO
203	16A81A0527	HEMASUPRIYAMADDU	WIPRO
204	16A81A0555	V.SWETHA KIRANMAYI	WIPRO
205	16A81A0576	CH.MANO HAR	WIPRO
206	16A81A0544	PILLALAMARRI SURYA KANTH	WIPRO
207	16A81A05K3	K.SAI VINAY	WIPRO
208	16A81A0515	BODDEDA SRIRAM	WIPRO

// Snippets

1. Guess the output:

```
#include<stdio.h>
int main()
{
int a=5, b=3;
printf("%d", ++(a*b+1)) ;
}
```

- A) 17 B) 16
C) 21 D) Compiler error

2. Guess the output:

```
#include<stdio.h>
int main()
{
int i=2,j=2;
while (i+1?--i:--j)
    printf("%d",i);
}
```

- A) 1 B) 4
C) Syntax ERROR D) Compiler ERROR

3. Guess the output :

```
#include<stdio.h>
int main()
{
printf("%%d\n");
return 0;
}
```

- A) %% B) %d%d
C) %%% D) Compiler Error

4. Guess the output :

```
#include<stdio.h>
int main()
{
int a;
scanf ("%*d%d",&a);
printf("%d", a);
return 0;
}
//input is 40 50
```

- A) 40 B) 50 C) 40 50 D) Compiler error

5. Write a program to print the elements in an array which are greater than all elements to its right.

Example:

Input : 16174352
Output : 17,5,2

6. Given an NxN matrix, each row and column sorted in increasing order, and a number X, write a program to find the position of X in the matrix if it is present in it. Algorithm should have linear time complexity

Example:

Input:
mat[3][3]
10, 20, 30
16, 26, 35
27, 29, 37
X-29

Output:
Found at (3, 2)

Answers

1 Ans.

D). compiler error

Explanation:

Answer is compiler error because increment and decrement operators only perform with variable, not perform with any constant or any expression. Here, increment operator is used with expression as well as constant so, answer is compiler error.

2 Ans.

A).1

Explanation:

In first iteration, $i=2 \rightarrow i+1=3$ its true so $--i$ returns 1. so, 1 is printed. after that $i=1 \rightarrow i+1=2$ its true but $--i$ returns 0. do while loop is terminated. so, output is 1.

3 Ans.

B). %d%d

Explanation:

Here, %%d%%d this will be print %d%d because every two % print one % on screen and d will be also printed after one % as it is. So, answer is %d%d.

4 Ans.

B). 50

Explanation:

or, scanf * indicates that the field to be read but ignored. so that here, 40 and 50 are taken as input but 40 is to be ignored and 50 will be print on screen.

5 Ans.

PSEUDO CODE:

```
DECLARE AN ARRAY arr [n]
```

```
DECLARE AN EXTRA ARRAY earr [n]
```

```
earr [0] = arr[n-1]; // LAST ELEMENT
```

```
curr_max = arr [n-1]; j=1;
for (i=n-2; i >=0; i--)
{
    if (arr [i] > curr_max)
    {
        curr_max = arr[ i]
        earr [j++] = curr_max;
    }
}
for (i+j-i; i >= 0; i--)
    print (earr[i] );
```

6 Ans.

PSEUDO CODE:

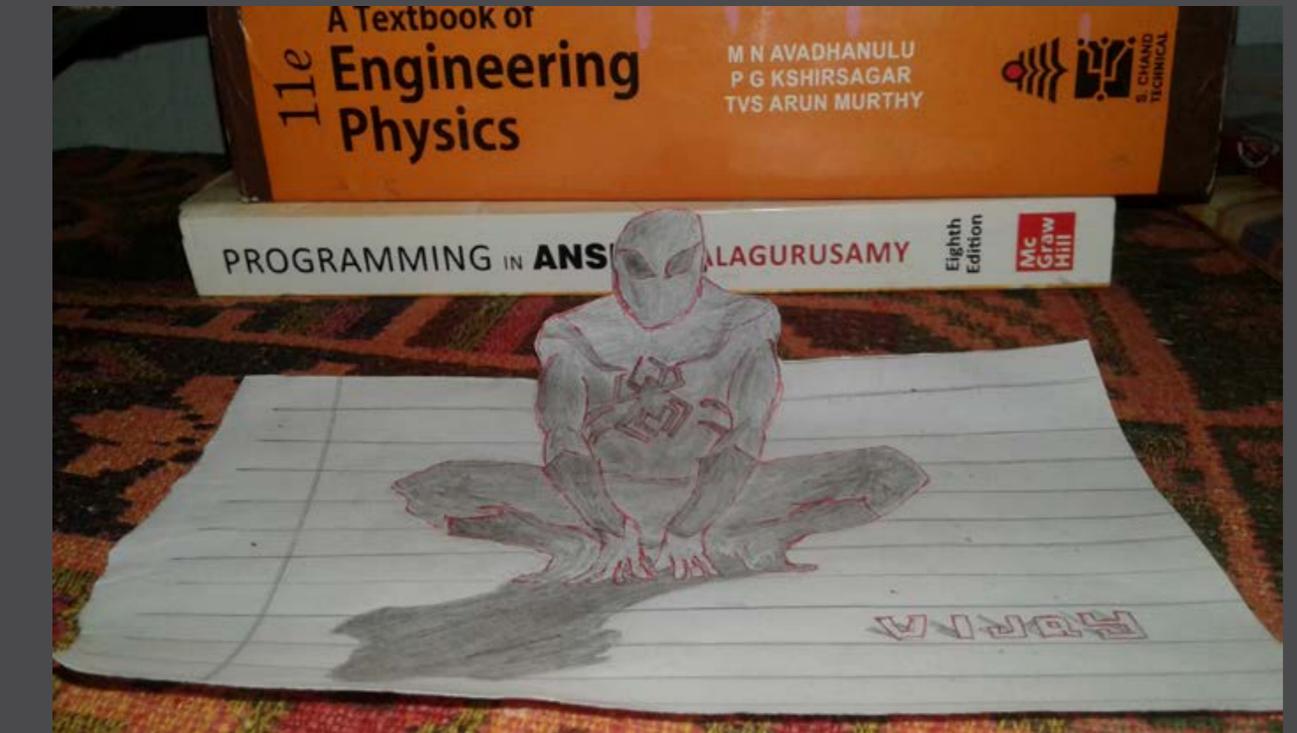
```
smallest = arr[i][j], largest= arr [n-1][n-1]
if (a < smallest || a > largest)
    print (" Not To vnd");
i=0; j=n-1, flag=0;
loop till in and j>= 0
if (x<arr [i][j])
j--; //eliminating column
else if (x> arr [i][j])
i++; // eliminating row
else
{
    print (i,j)
    flag =1;
    break;
}
if (flag! 1)
print ("Not Found ");
```

**19-540
CSE-A**



Social Security art

by
19A81A0540



3 dimension art in 2 dimension paper

by
19A81A0540