

BHARATI COLLEGE OF EDUCATION



KANDRI MORE MANDER, RANCHI

B. ED

2022 - 2024

Assignment on

EPC-3

CRITICAL UNDERSTANDING OF ICT

EXTERNAL

1. Computer
2. Methods of Computer
3. Satellite

Guided by

Manoj Kumar Gupta Sir

Submitted by

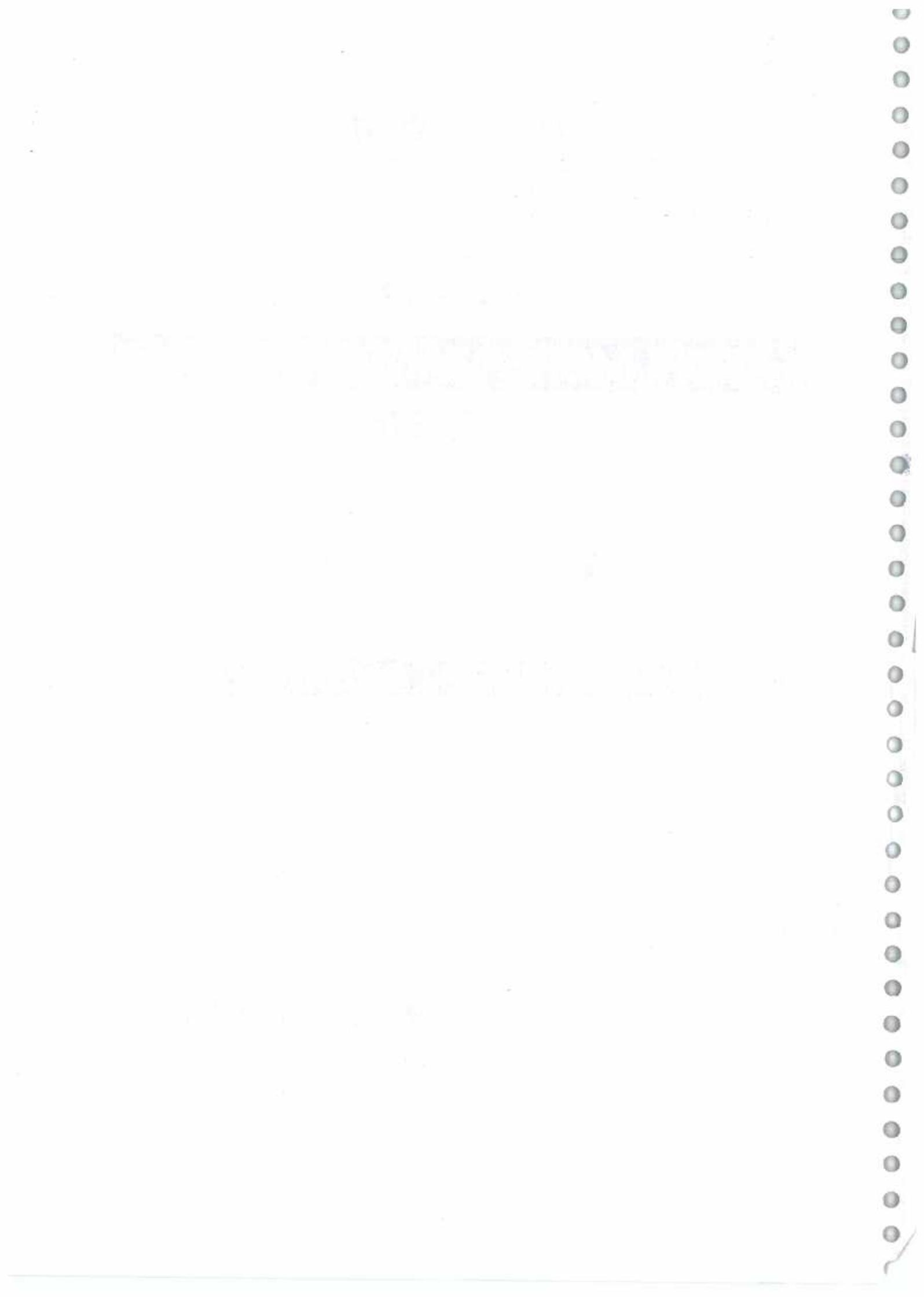
Satish Kumar

Name - Satish Kumar

Class - B.Ed 1st Year

Class roll no. - 91

Exam Roll no. - 22BED00370



Certificate

This is to certify that this project – “EPC – 3” has been performed by Mr Satish Kumar of B. Ed 1st year .

This project has been successfully completed by the candidate under the supervision and guidance of Prof Manoj Kumar Gupta . He has taken proper care and shown almost sincerity in the completion of this project . I certify that this project is upto my expectations and as per the guidelines.

I wish him a bright and successful future ahead .

Guided by

Prof. Manoj Kumar Gupta

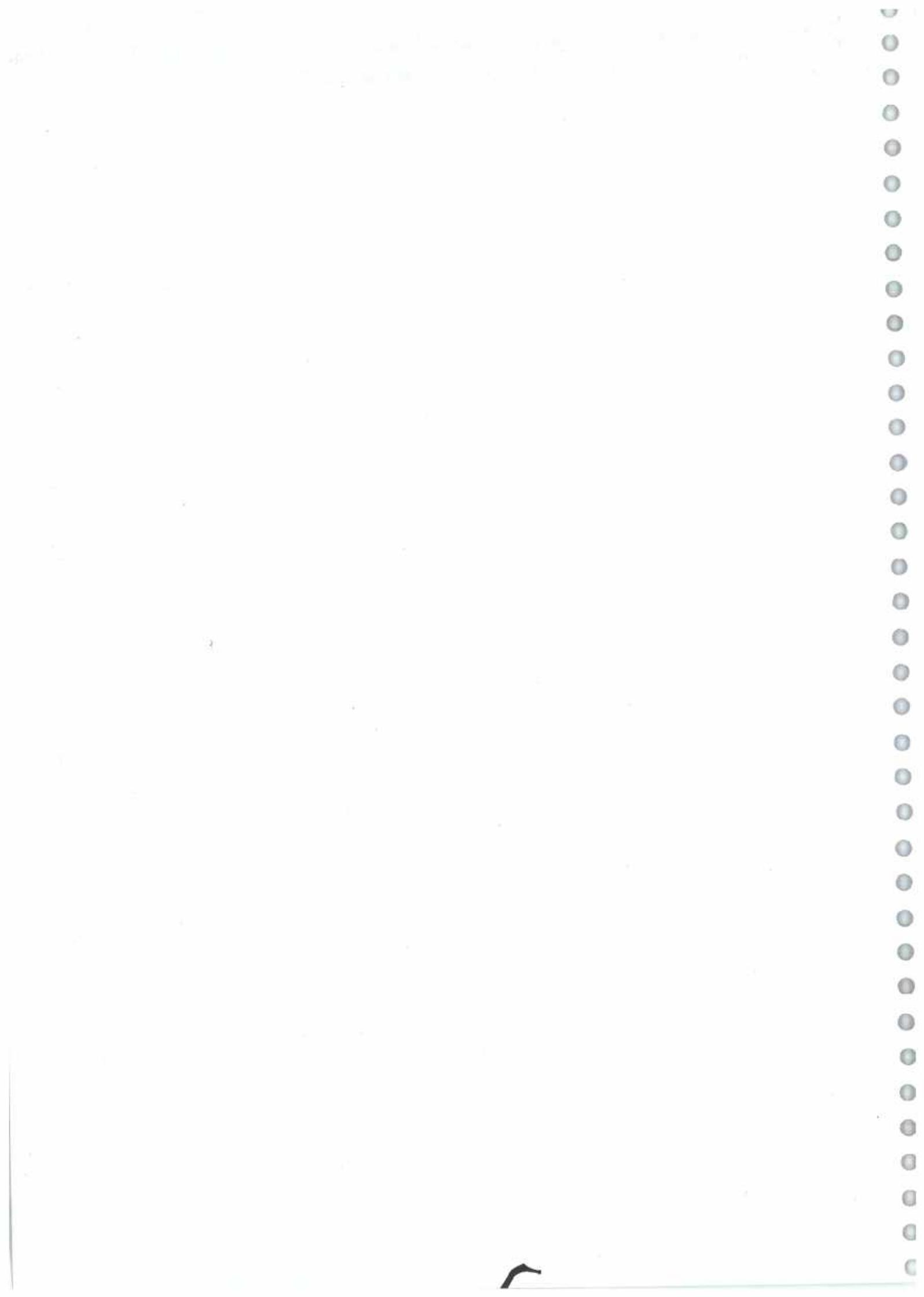
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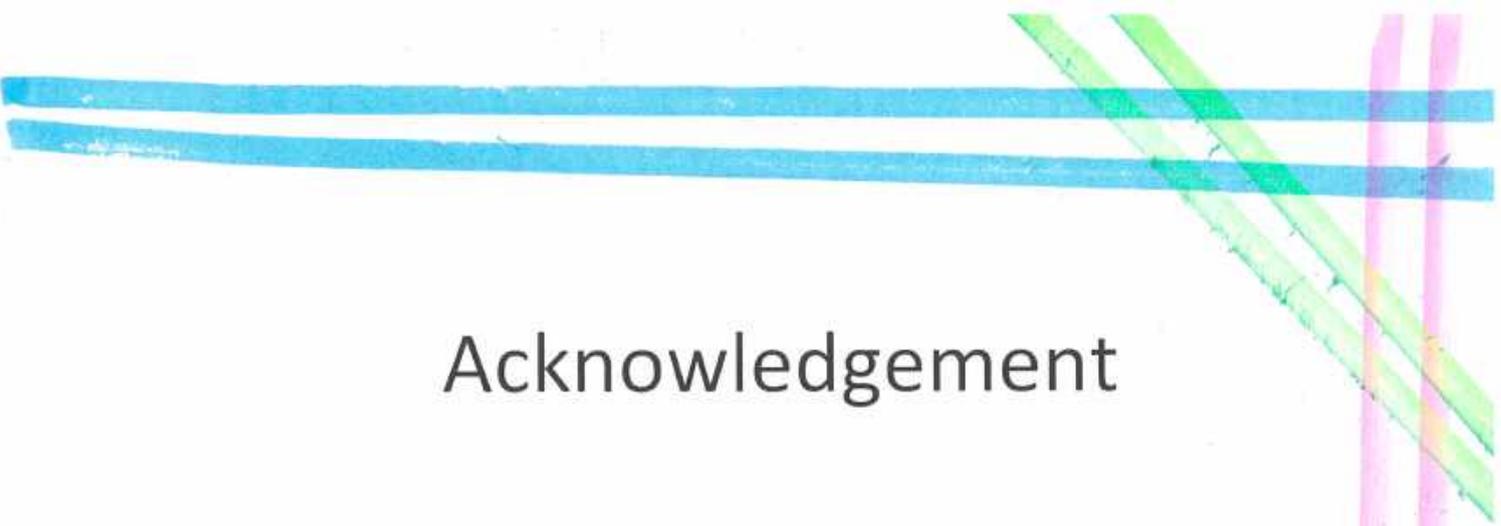
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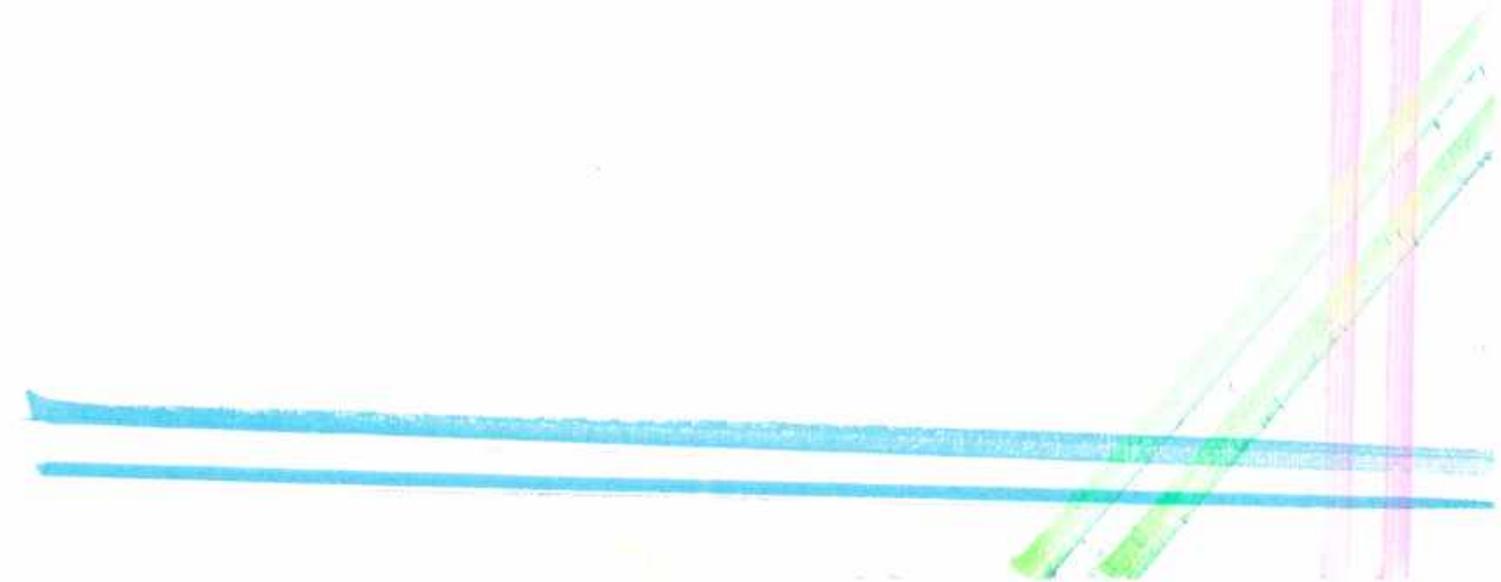


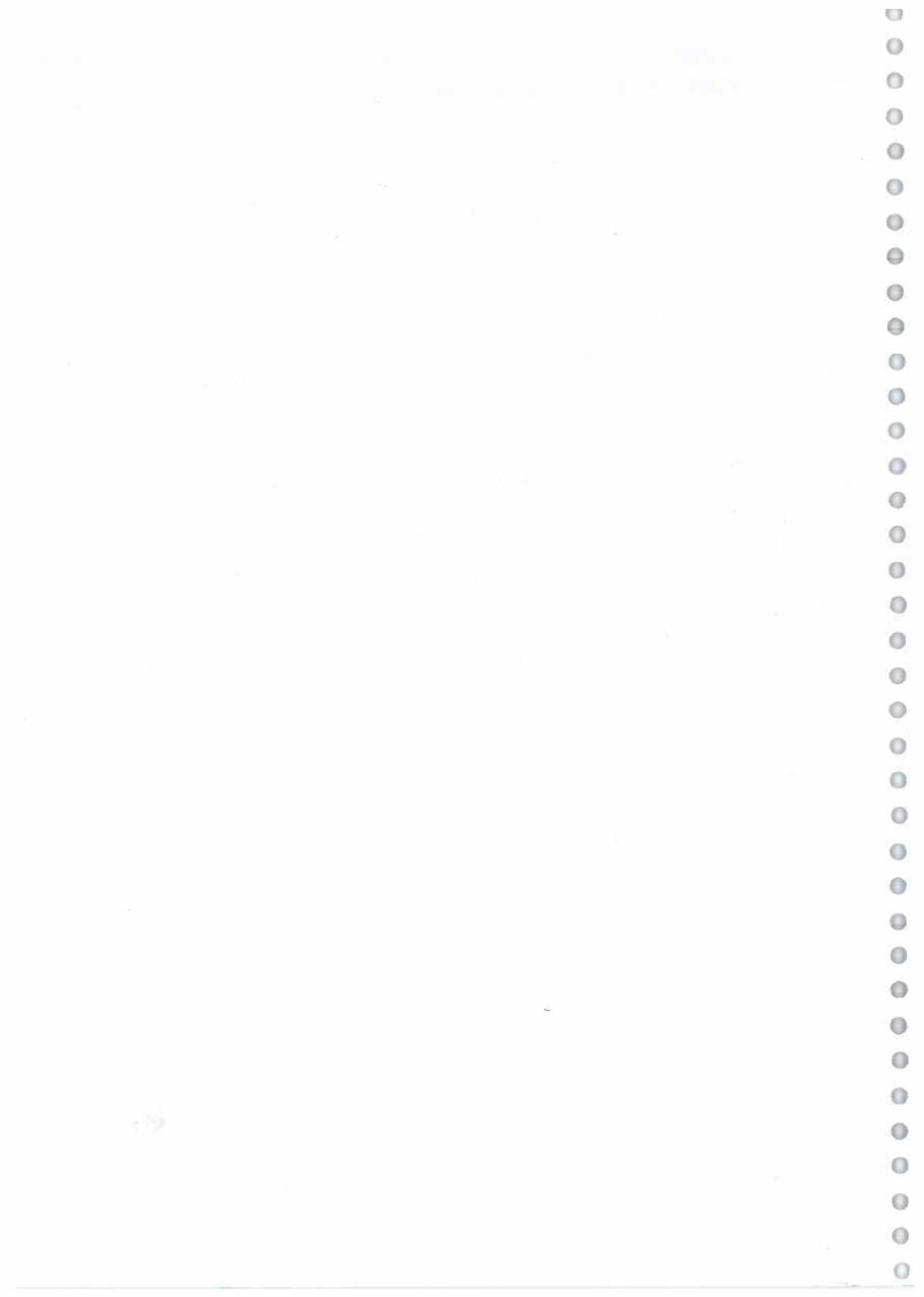
Acknowledgement

I am really grateful for this project opportunity and would sincerely thank my teacher **Prof. Manoj kumar Gupta** for trusting me with this project . Their suggestions and feedback have helped me a lot in improving the quality of the project .

Also , I would like to mention the support system and consideration of my parents who have always been there in my life .

Lastly , I thank all my friends who have motivated me to fulfill the project before the timeline .





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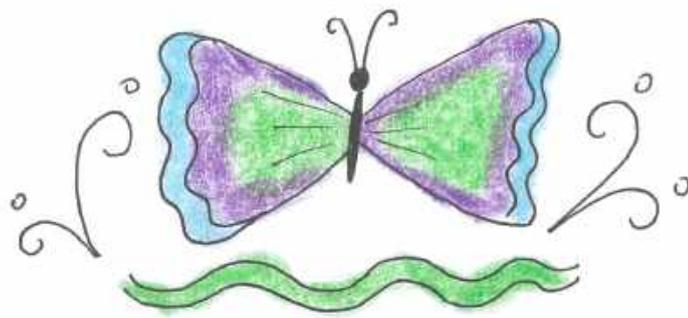
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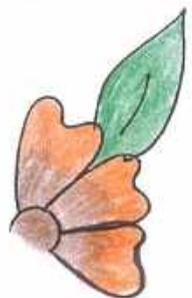
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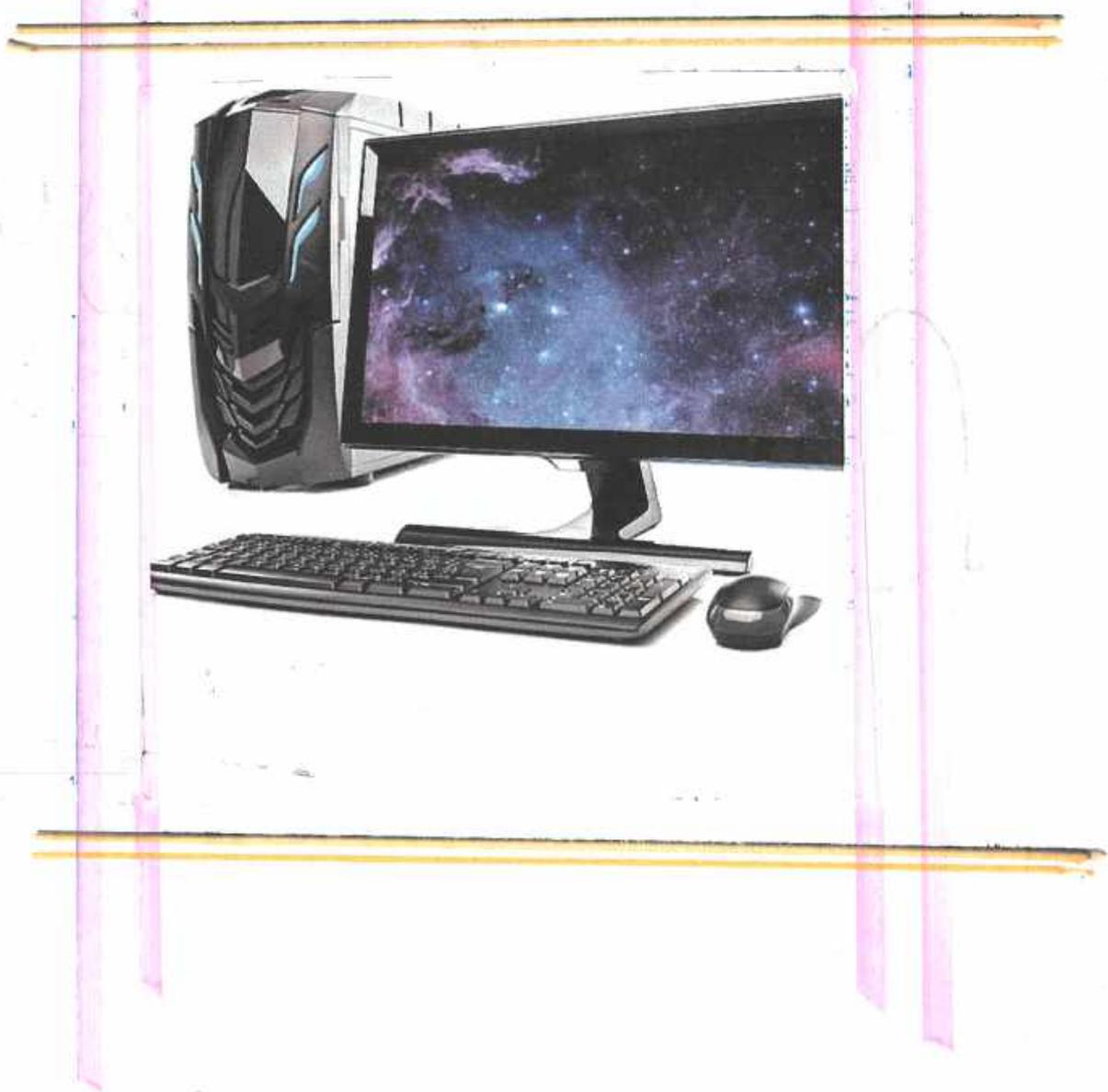
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Computerie





INTRODUCTION OF COMPUTER

• A Computer is a machine that can be programmed to carry out sequence of arithmetic or logical operation automatically. Modern digital electronic computer can perform generic set of operation known as program

These program enable computer to perform a wide range of task. A Computer system is a nominally complete computer that include the hardware operating system and peripheral equipment needed and used for full operation. This term may also refer to a group of computer that are linked and

GENERAL INVESTMENT
CORPORATION
OF
INDONESIA
PT. G.I.C.

❖ A broad range of industrial and consumer product use computers as control systems. Special purpose devices like microwaves ovens and remote controls are included as are factory devices like industrial robots and computer aided design as well as general purpose devices like smartphones. Computer power the

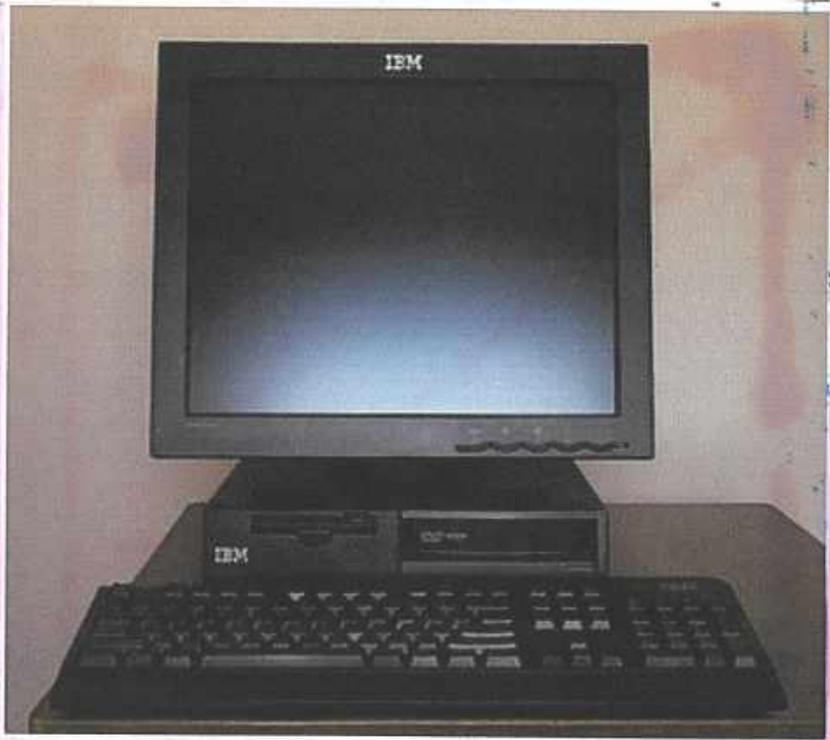
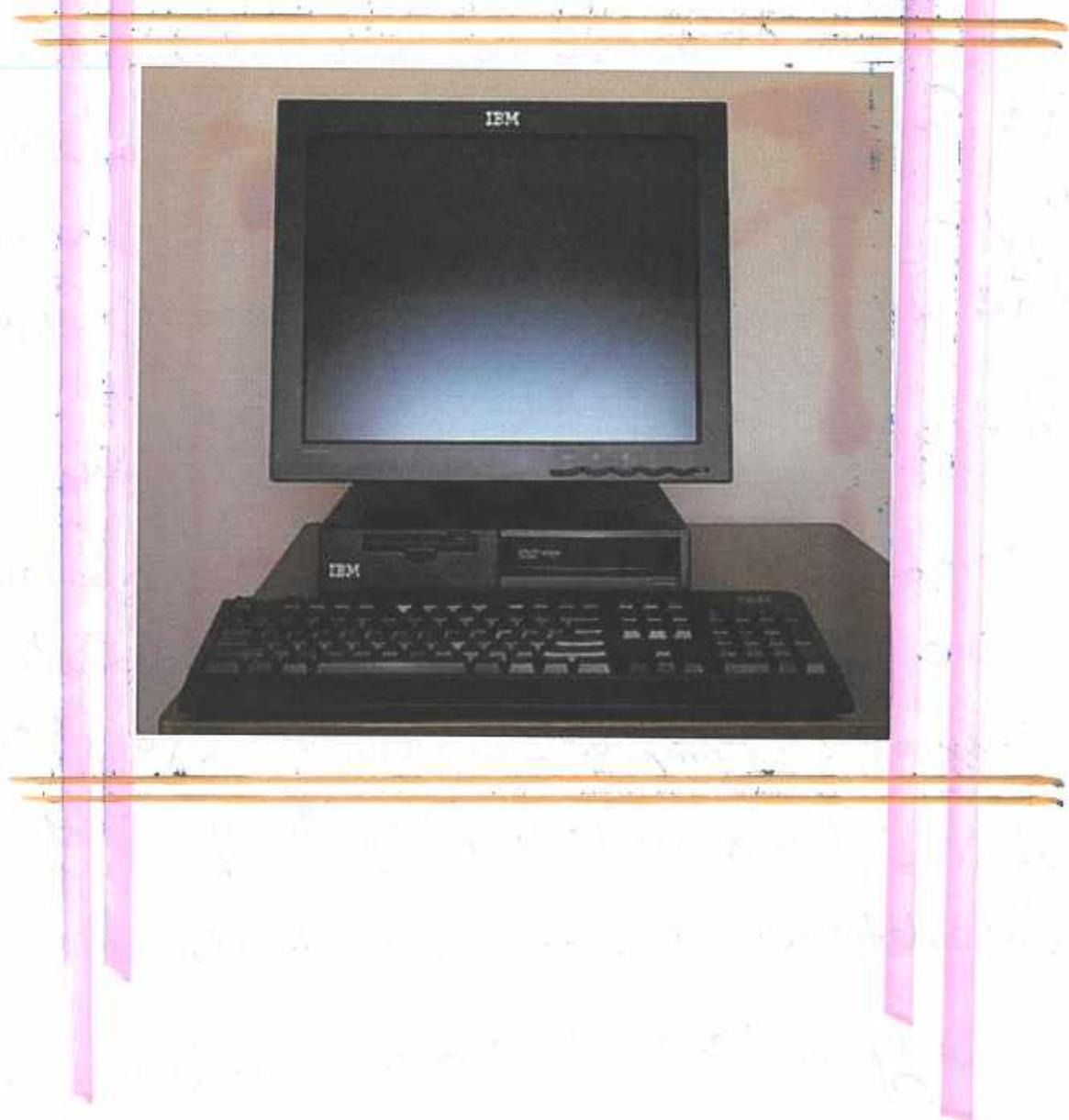
Internet which link billions of other

computers and users. Early computers were meant to be used only for calculations. Simple Internet like the abacus have aided people in doing calculations. Since ancient times.

Early in the industrial and consumer

product use computers as control systems. Simple purpose devices like microwaves ovens and remote control

are included as are factory.



Definition of Computers:-

∴ The computer is an electronic system that has the ability to manipulate data quickly and accurately as well as designed and organized to automatically receive and store input data, processes it, and produces output under the supervision of a step by step instruction program which is stored in the computer.

By: Sandeev

Computer is an electronic devices which has the ability to do some tele coms like accept input, input processing, storing commands and provide output.

By: Robert Blissner

The computer is an electronic calculating machine that quickly and can receive digital input information then process it in accordance with a program stored in memory generate output information.

Definition of Profit

Profit is the amount of money that a business makes after all its expenses have been paid. It is the difference between the total revenue and the total costs. Profit is the main reason why businesses exist and it is the source of funds for expansion and growth.

Types of Profit

There are three main types of profit: Gross Profit, Operating Profit, and Net Profit. Gross Profit is the profit after deducting the cost of goods sold from the total revenue. Operating Profit is the profit after deducting all operating expenses from the gross profit. Net Profit is the profit after deducting all taxes and interest from the operating profit.

Importance of Profit

Profit is important for several reasons. It is the source of funds for expansion and growth. It is also a measure of the success of a business. Profit is used to pay dividends to shareholders and to provide a return on investment. Profit is also used to pay taxes and interest.

History of Computer Studies are

∴ Devices have been used to aid computation for thousands of years. mostly one to one correspondence with fingers. the earliest counting devices was most likely a form of tally stick. Later record keeping and thought out the Fertile Crescent Calcut which represented counts of items, likely livestock or grains, sealed in hollow unbaked clay containers. The abacus was initially used for arithmetic tasks. The Roman abacus was developed from devices used in Babylonia early as 2400 BCE. Since then many other forms of reckoning boards or table have been invented. In medieval European counting house a checkered cloth would be placed on a table and markers moved around



History of Compartmental Models

The history of compartmental models is a long and interesting one. It begins with the work of mathematicians like Euler and Laplace in the 18th century, who studied the flow of water in a network of pipes. This was the first example of a compartmental model, where the pipes were the compartments and the water flow was the transitions between them.

In the 19th century, the concept of compartmental models was extended to the study of population dynamics. The famous SIR model, which stands for Susceptible, Infected, and Recovered, was developed by William Kermack and Anderson McKendrick in 1927. This model was the first to describe the spread of an infectious disease in a population.

The use of compartmental models in biology and medicine has continued to grow. In the 1950s, compartmental models were used to study the dynamics of cancer cells, and in the 1960s, they were used to study the spread of HIV. Today, compartmental models are used in a wide range of fields, including epidemiology, ecology, and economics.

One of the key challenges in the development of compartmental models is the choice of compartments and transitions. This is often done based on biological or physical principles, but it can be difficult to choose the right compartments and transitions for a given system. Another challenge is the lack of data, which can make it difficult to estimate the parameters of the model.

Despite these challenges, compartmental models remain a powerful tool for understanding complex systems. They provide a clear and concise way to describe the dynamics of a system, and they can be used to make predictions about the future behavior of the system. As our understanding of complex systems continues to grow, the use of compartmental models is likely to increase.

around it according to certain rules as an aid to calculating sum of money. The slide rule was invented around 1620-1630

by the English clergyman William Oughtred, shortly after the publication of the concept of the logarithm. It is hand operated along computer for doing multiplication and divisions. As slide rule development progressed, added scales provided reciprocal

square and square roots. Cubes and cube roots as well as transcendental functions

such as logarithms and exponentials, circular and hyperbolic trigonometry and other

functions. Slide rules with special scales are still used for quick performance

of routine calculation. Such as the circular slide rules used for time

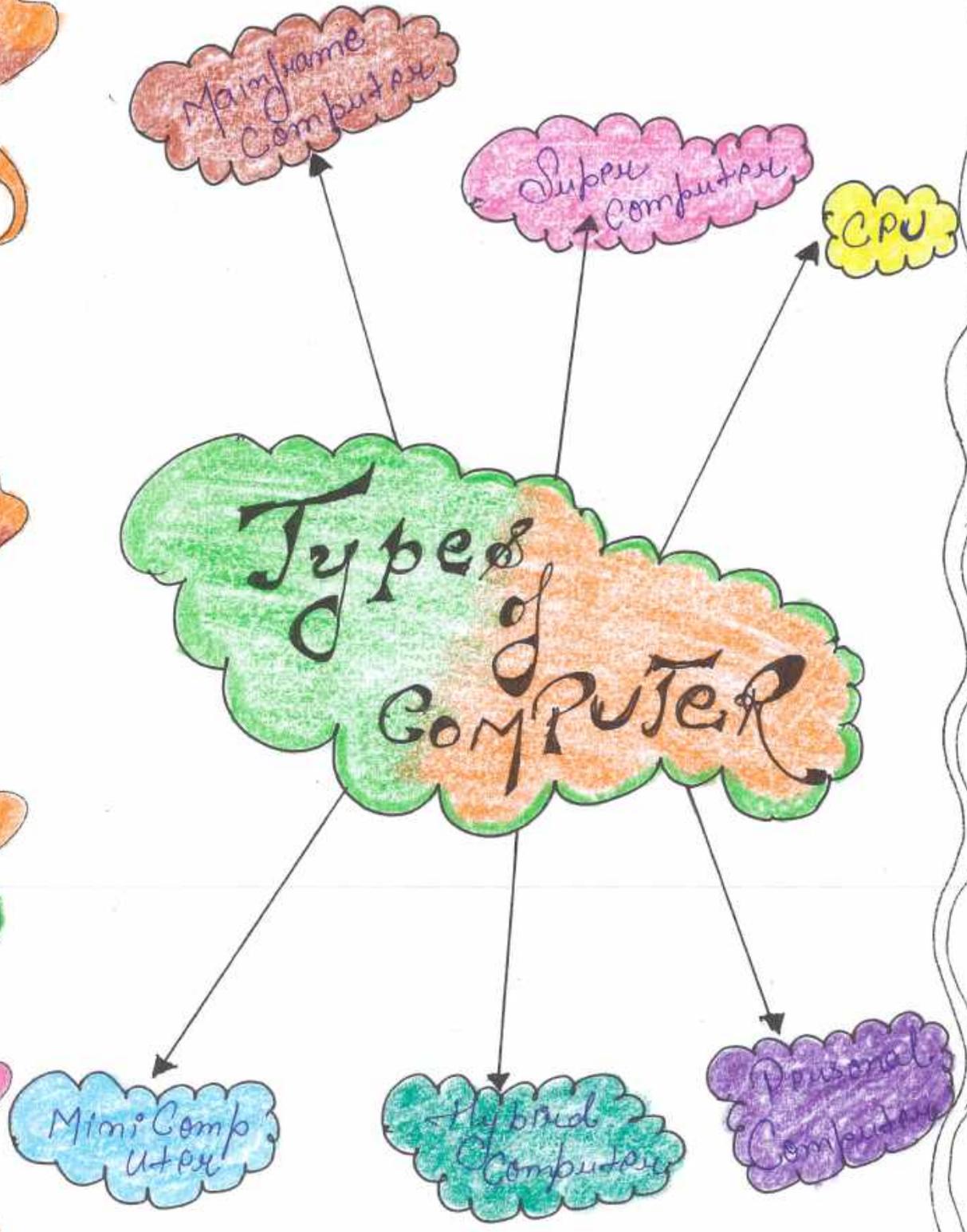
and distance calculation on light aircraft

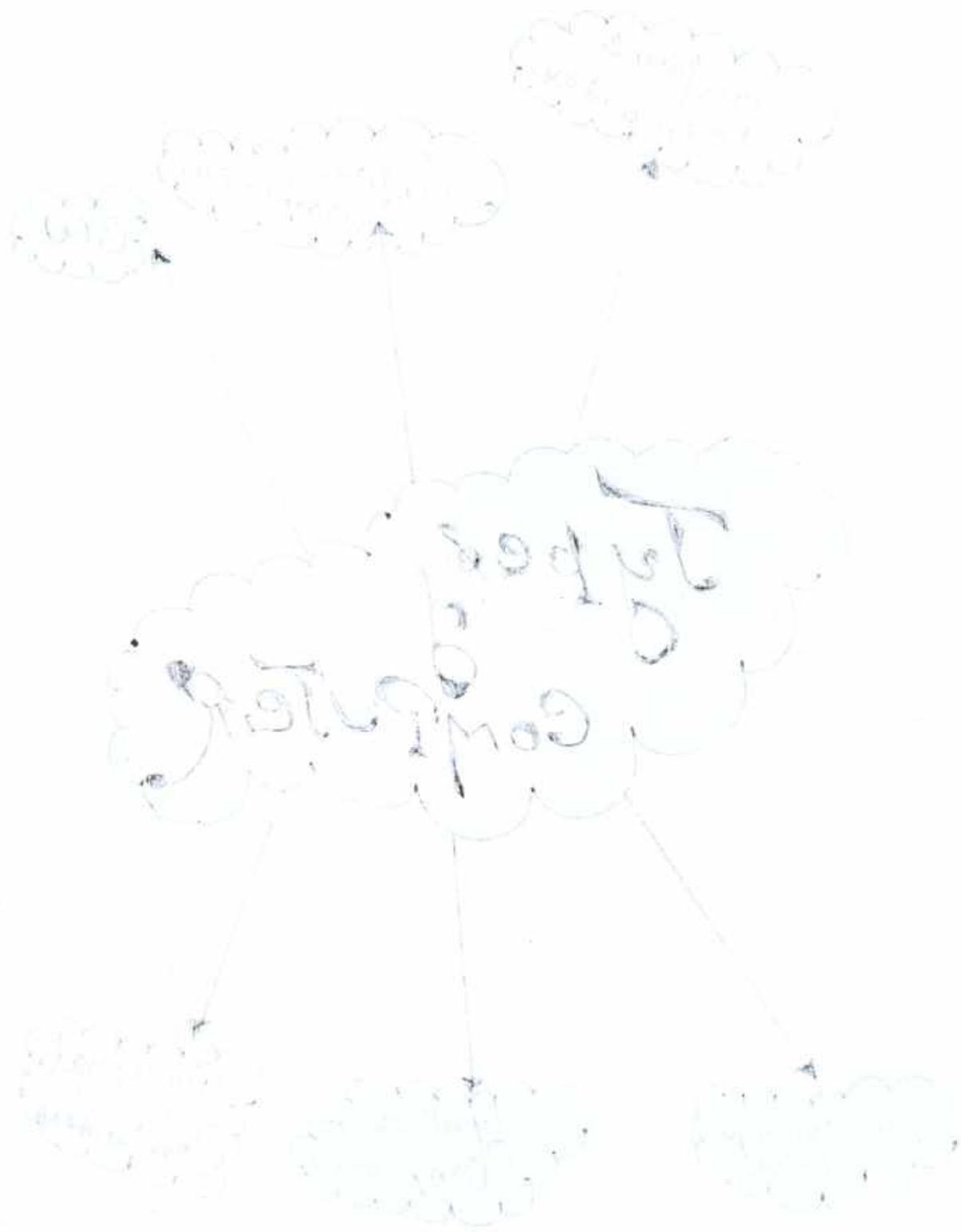
The differential analyzer, mechanical analog computer designed to solve differential





equations by integration, used wheel- and disc mechanisms to perform the integration. In 1876 Sir William Thomson had already discussed the possible construction of such as Calculator but he had been stymied by the limit output tongue of the ball- and disk integrator. In different analyzer the output of one integrator drove the input of the next integrator and graphic output. The tongue amplifier was the advance that allowed these machines to work. In 1890 the Spanish engineer Leonardo Torres Quevedo began to develop a series of advanced analog machines that could solve real and complex root of polynomials. After working on his differential engine he announced his invention in 1922. In a paper to the 1833 he realized much more Graphical Design.

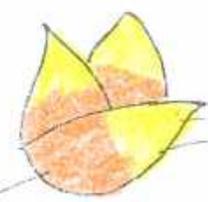
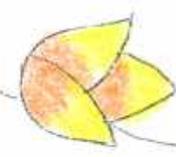
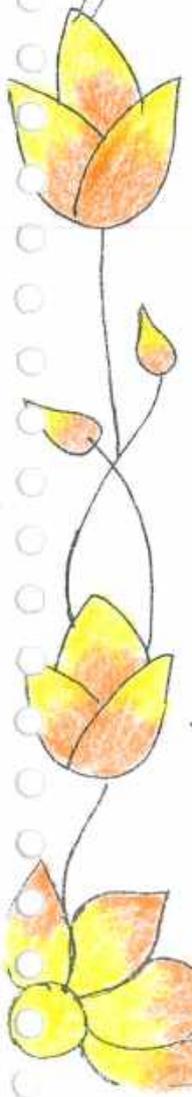




❖ Mainframe Computer :- Computer used by large organisation to manage bulk data are are called Mainframe Computer. Mainframe Computer include managing Customer statistics, census and other heavy data single devices for example :-
The system used at Reading Companies.

❖ Super Computer :- Computer used at organisation dealing with weather forecasting Quantum Mechanics climate research etc. where high level of performance has to justified are called as Super Computer.

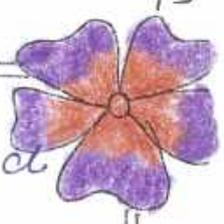
❖ CPU :- CPU stands from Central Processing Unit. CPU appeared in the small CPU. RAM and memory chip. It is useful to the word processing, accounting, desktop management.



Introduction
 The world is moving towards a digital era. The use of technology is increasing day by day. This is the reason why we are living in a digital world. The digital world is a world where everything is done through a computer. The digital world is a world where we can do anything we want to do. The digital world is a world where we can do anything we want to do.

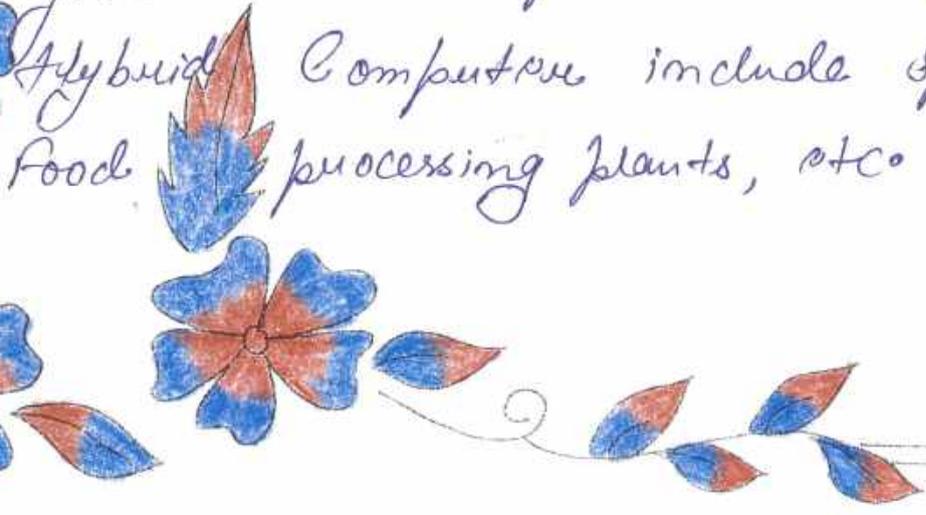
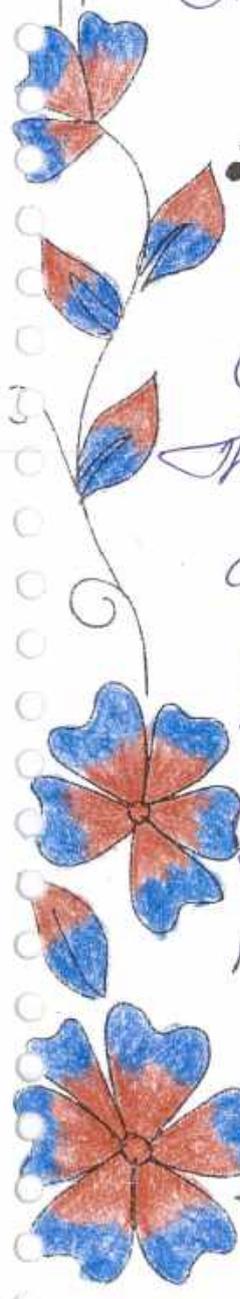


The digital world is a world where we can do anything we want to do. The digital world is a world where we can do anything we want to do. The digital world is a world where we can do anything we want to do. The digital world is a world where we can do anything we want to do.



∴ Mimi Computers:- Developed in the mid 1960. Mimi Computers are comparatively smaller than mainframe computers. They were developed keeping in classroom. They were developed keeping consideration human interaction, control instrument and were cost-effective for example Smartphone iPad etc.

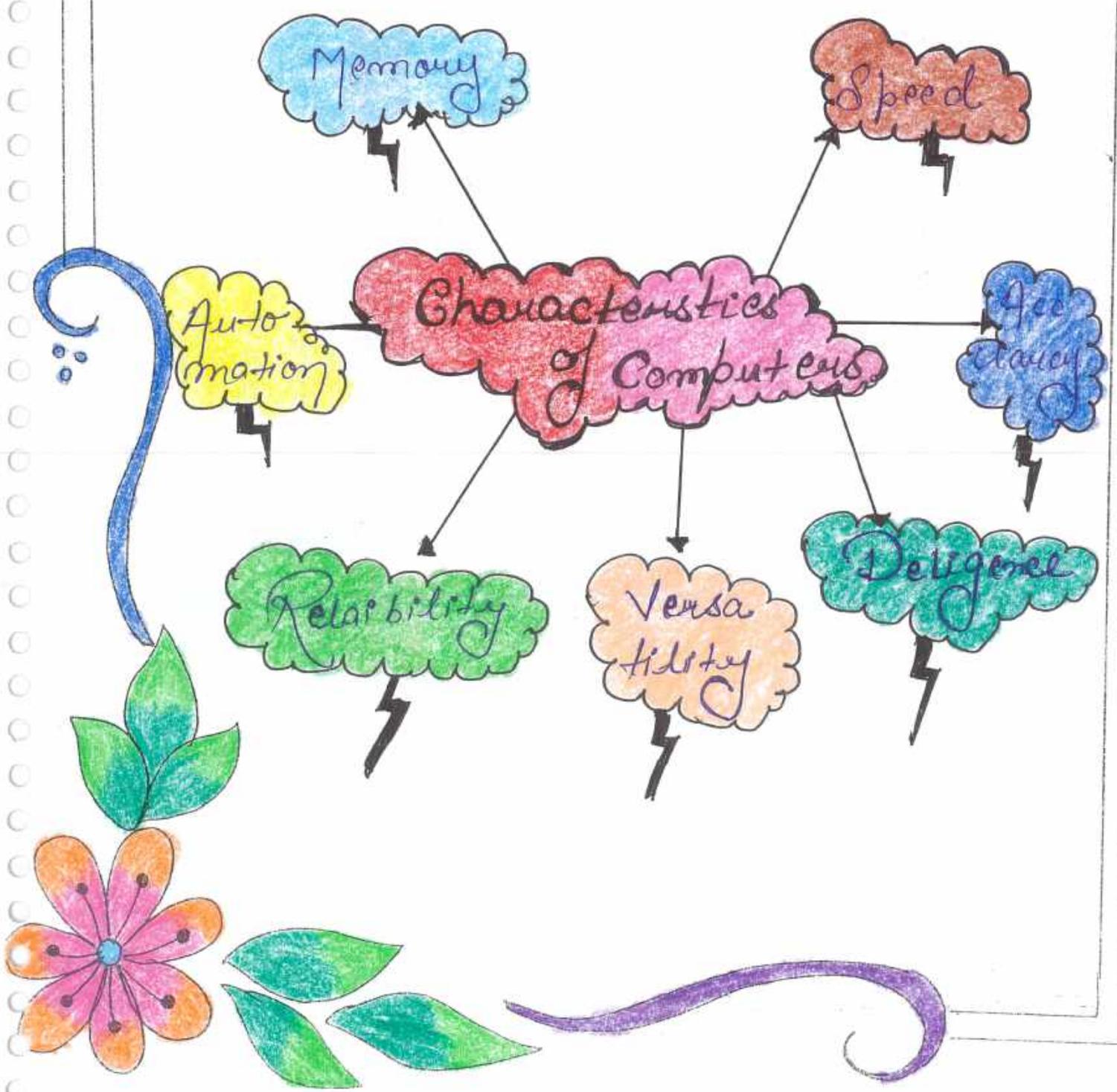
∴ Hybrid Computers:- Computers that exhibit feature of both analog and Digital computers are called Hybrid computers. The logical operations are solved by the digital aspect and the differential equation are solved using the analog features. Few important examples of Hybrid computers include space flight food processing plants, etc.



Mr. D. S. Srinivasan
The Director,
Central Board of Secondary Education,
New Delhi.
Dear Sir,
I have the honor to acknowledge the receipt of your letter of the 15th inst. regarding the matter mentioned in the subject. I am sorry to hear that you are unable to attend the meeting on the 20th inst. I am sure that you will be able to attend the meeting on the 27th inst. I am sure that you will be able to attend the meeting on the 27th inst.

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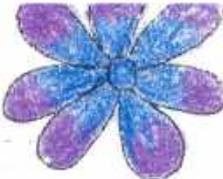
∴ Personal Computer :- A personal Computer has one user who may also be the owner. Although the term has also come also mean any Computer hardware some what like the Original IBM PC,



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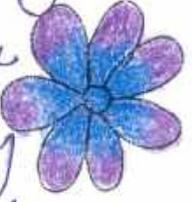
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Speed:- A Computer work with higher speed and accuracy compared to human while performing mathematical calculation. Computer can process millions (1000,000) of instruction per second. The time taken by computer for this operation is micro-seconds and nano seconds.



Accuracy:- Computer perform calculation with 100% accuracy. Error may occur due to data inconsistency or inaccuracy.



Diligence:- A Computer can perform million of task or calculation with the same consistency and accuracy. It doesn't feel any fatigue or lack of concentration. It memory also make it superior to that of human beings.



Advantages of Companies

1. Limited liability
2. Separate legal entity
3. Perpetual existence
4. Easy transfer of shares
5. Tax advantages

Disadvantages of Companies

1. High cost of formation
2. Double taxation
3. Government regulation

Conclusion

Final Thoughts

Companies offer many benefits but also have some drawbacks. It is important to weigh the pros and cons before deciding to incorporate.



∴ Versatility :- Versatility refers to the capabilities of a computer to perform different kinds of work with same accuracy and efficiency.

∴ Reliability :- A computer is reliable as it gives consistent result for similar set data i.e. if we give same set of input any number of times, we will get the same result.

∴ Automation :- Computer has built in memory called primary memory where we store data. Secondary storage are removal devices such as CD's pen.

∴ Memory :- A computer has perform all the task when it store data. Secondary storage are removal devices such as CD's pen drives which are also store data.

1. Variational Calculus - Introduction

The calculus of variations is a branch of mathematical analysis that deals with finding the extrema of functionals.

It is a generalization of the calculus of functions.

2. The Calculus of Variations

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It is a generalization of the calculus of functions.

Evolution of Computers

Abacus
(3000-0c)

Napier's Bones
(1617)

Pascal's
Adder
(1642)

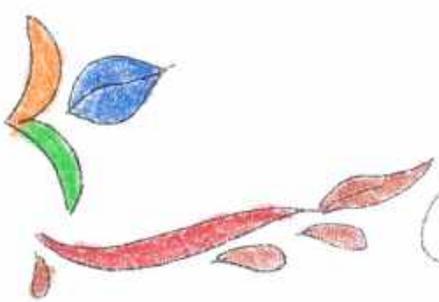
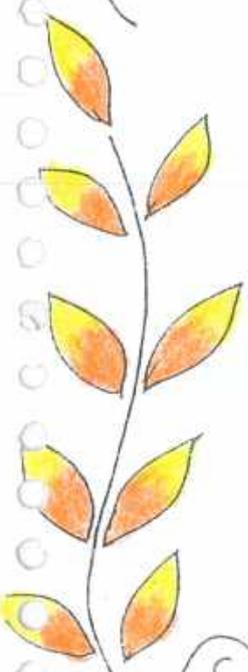
Liebniz
Wheel
(1665)

Mark I
(1944)

Census
Machine
(1889)

Analytical
Engine
(1833)

Jacquard
Loom
(1804)



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Function of Computers...

Data Processing

Control Unit
Arithmetic Logic Unit

Memory (Temporary)

Storage (Permanent)

Data Input

- Keyboard
- Mouse
- Webcam
- Micro

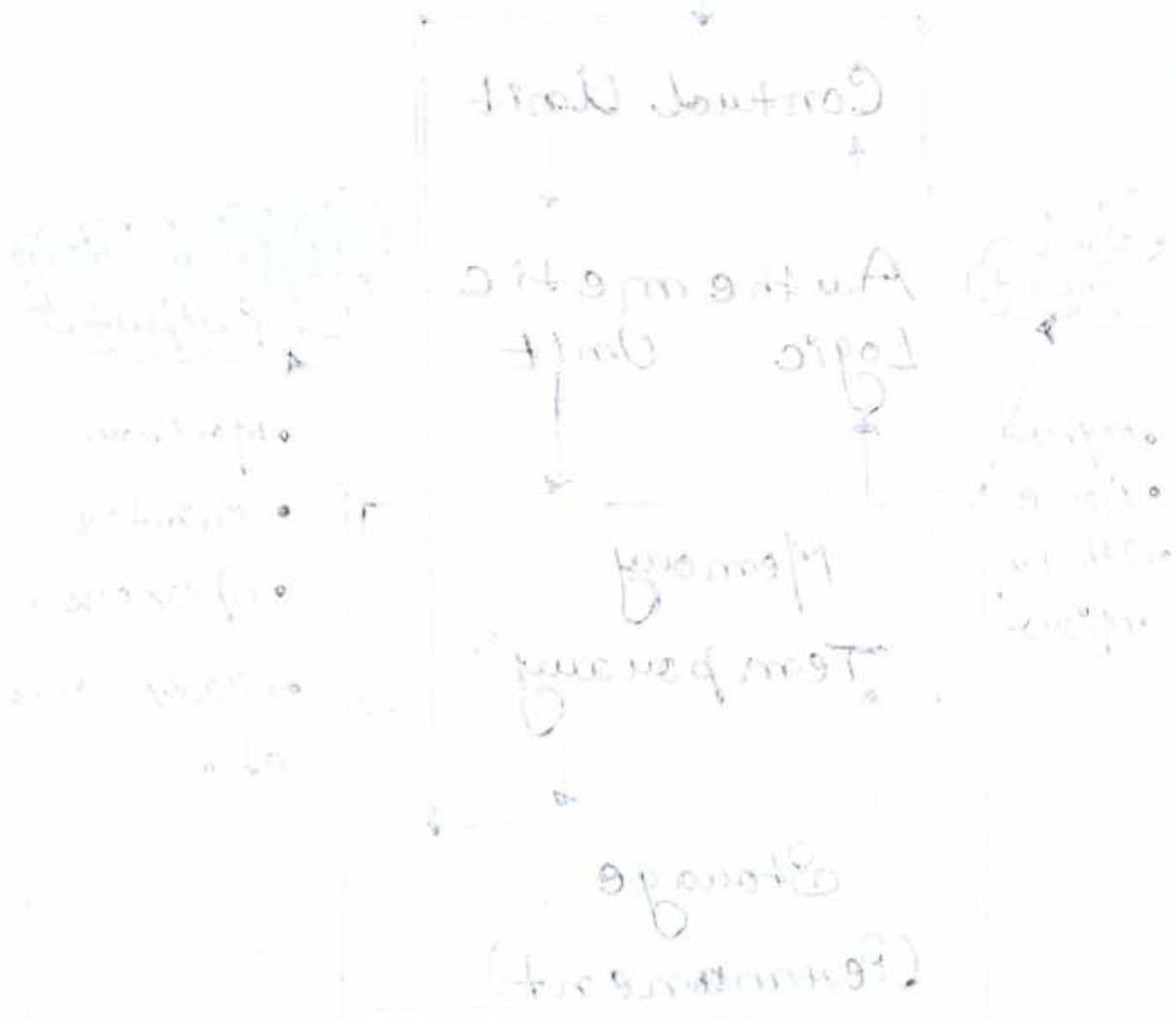
Information Output

- Monitor
- Printer
- Speakers
- Headphones etc



Functions of Computers

Data Processing



CONCLUSION

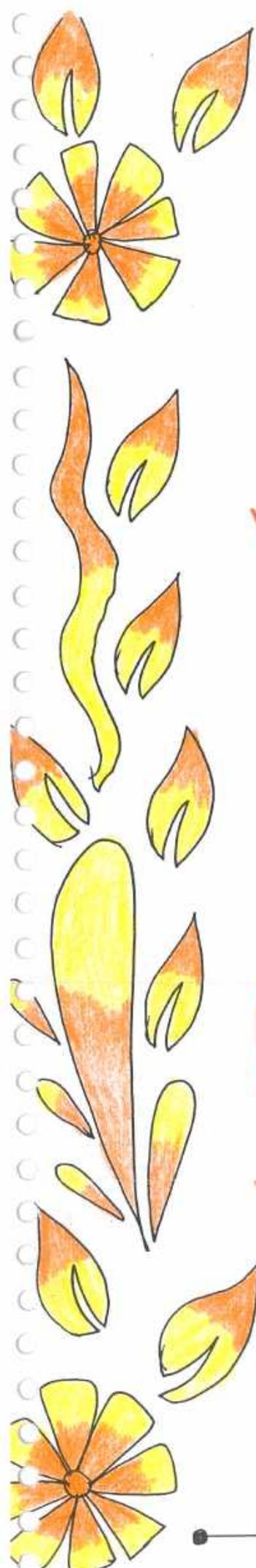
∴ As a result of the various improvement to the development of the Computer we have seen the Computer being used in our areas of life. It is a very useful tool that will continue to experience new development as time passes.

∴ Computers are used in various areas of life education, entertainment sport, advertisement, medicines, science and engineering. Government office and home are some of the application areas of Computers.

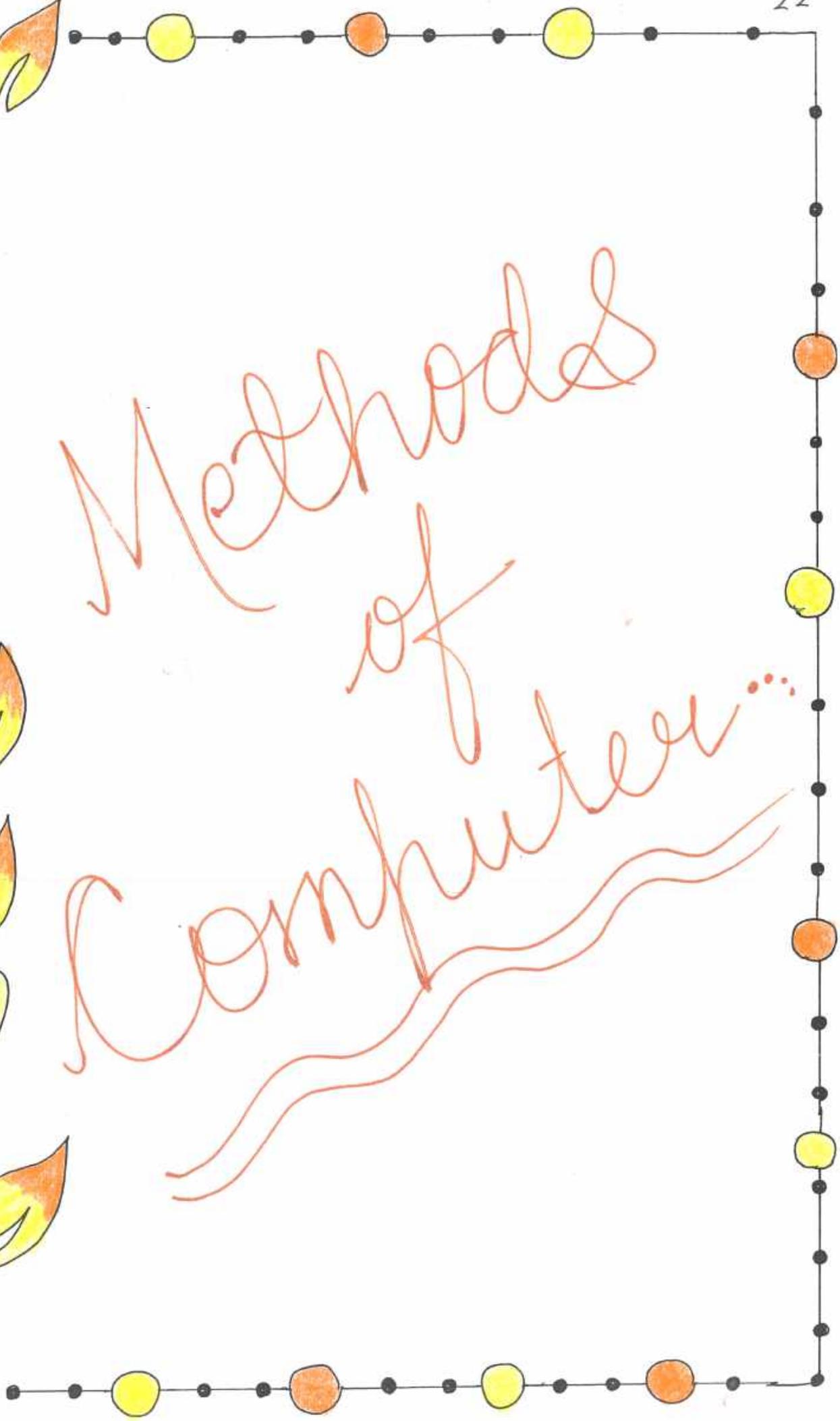
Conclusion

.....

The first part of the paper discusses the importance of the research and the objectives of the study. It highlights the need for a comprehensive understanding of the subject matter and the role of the researcher in this process. The second part of the paper presents the methodology used in the study, including the data collection methods and the analysis techniques. This section is crucial for ensuring the reliability and validity of the findings. The third part of the paper discusses the results of the study and the conclusions drawn from the data. It emphasizes the significance of the findings and their implications for the field of study. Finally, the paper concludes with a summary of the key points and a call for further research in the area.



Methods
of
Computer...





Phases of Computer Generations ...

❖ First Generation Computers:-
(1940 - 1956)

❖ Second Generation Computers:-
(1956 - 1963)

❖ Third Generation Computers:-
(1964 - 1971)

❖ Fourth Generation Method:-
(1971 - Present)

❖ Fifth Generation Computers:-
(Present and Beyond)

History of Computers
of computer science

Early computers (1940-1950)

Second Generation Computers
(1950-1960)

Third Generation Computers
(1960-1970)

Fourth Generation Computers
(1970-1980)

Fifth Generation Computers
(1980-1990)

Generation of Computer	Time Period	Evolving Hardware
•• First Generation	1940s - 1950s	Vacuum Tube based
•• Second Generation	1950s - 1960s	Transistor Based
•• Third Generation	1960s - 1970s	Integrated Circuit based
•• Fourth Generation	1970s - Present	Microprocessor
•• Fifth Generation	Present Future	Artificial Intelligence Based

1. Introduction
 2. Objectives
 3. Methodology
 4. Results
 5. Conclusion
 6. References
 7. Appendix
 8. Index
 9. Summary
 10. Final Report

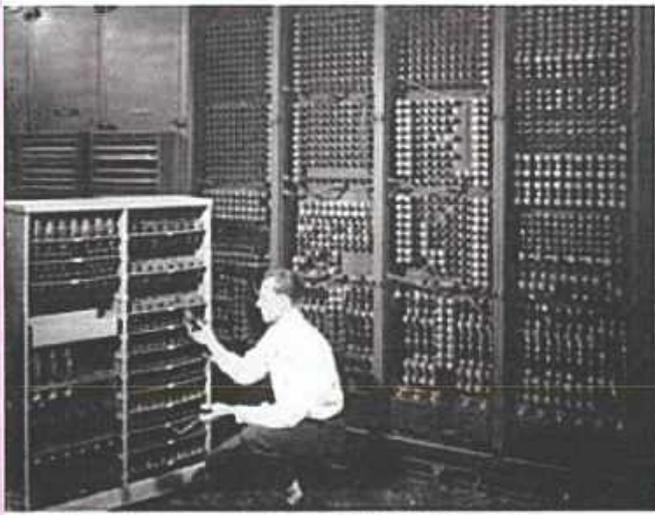
1. Introduction
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First Generation

••••• Computer :-

- The technology behind the primary Generation Computer was a fragile glass devices which was called a vacuum tube. These computer were very heavy and large. These weren't very available and programming on them was a tedious task as they used low-level programming language and used no OS. First-Generation Computer used for calculation, storage and control. The period of first generation was from 1946-1959. The computer of first generation used vacuum tubes as they basic component for memory and circuitary for CPU (Central processing unit). These tubes like electric bulb, produced a lot of heat and the installation used fire frequently.

First Computer
- Computer :-



Replacing a bad tube meant checking among ENIAC's 19,000 possibilities.

Therefore they were very expensive and only large organizations were able to afford it. In this Generation, mainly batch processing operating system was used. Punch Cards, paper tape, and magnetic tape was used as input and output devices.

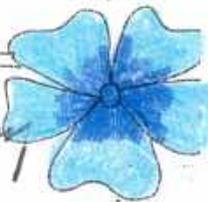
The Main features of the first Generation are:-

- Vacuum tube technology.
- Unreliable.
- Supported machine language only.
- Very Costly.
- Generated a lot of heat.
- Slow input and output devices.
- Need of AC
- Non-Portable

Some Computers of this Generation are:-

- ENIAC • EDVAC • UNIVAC • IBM-701
- IBM-650.





∴ Some Examples of First-Generation Computers are:-

∴ ENIAC :- Electronic Numerical Integrator and Computer built by J.T. Parsons Eckert and V. Mauchly was a General Purpose Computer. It had been cumbersome, and large and contained 18000 vacuum tubes.

∴ EDVAC :- Electronic Discrete Variable Automatic Computer was designed by Von-Neuman. It could store data also and instruction and thus speed was enhanced.

∴ UNIVAC :- Universal Automatic Computer was developed in 1952 by Eckert and Mauchly.



Some Examples of First-Order Computable ones:

1. \mathbb{N} : The set of natural numbers is a first-order structure with the language $\{+, \cdot, <, 0, 1\}$. The structure $(\mathbb{N}, +, \cdot, <, 0, 1)$ is a model of the Peano axioms. The theory of \mathbb{N} is decidable.

2. \mathbb{Z} : The set of integers is a first-order structure with the language $\{+, \cdot, <, 0, 1\}$. The structure $(\mathbb{Z}, +, \cdot, <, 0, 1)$ is a model of the Peano axioms. The theory of \mathbb{Z} is decidable.

3. \mathbb{Q} : The set of rational numbers is a first-order structure with the language $\{+, \cdot, <, 0, 1\}$. The structure $(\mathbb{Q}, +, \cdot, <, 0, 1)$ is a model of the Peano axioms. The theory of \mathbb{Q} is decidable.

Second Generation Computer

- ∴ Second Generation Computer used the technology of transistors rather than bulky vacuum tube. Another feature was the core storage. A transistor may be a device composed of a semiconductor material that amplifies a signal or opens or closes a circuit.

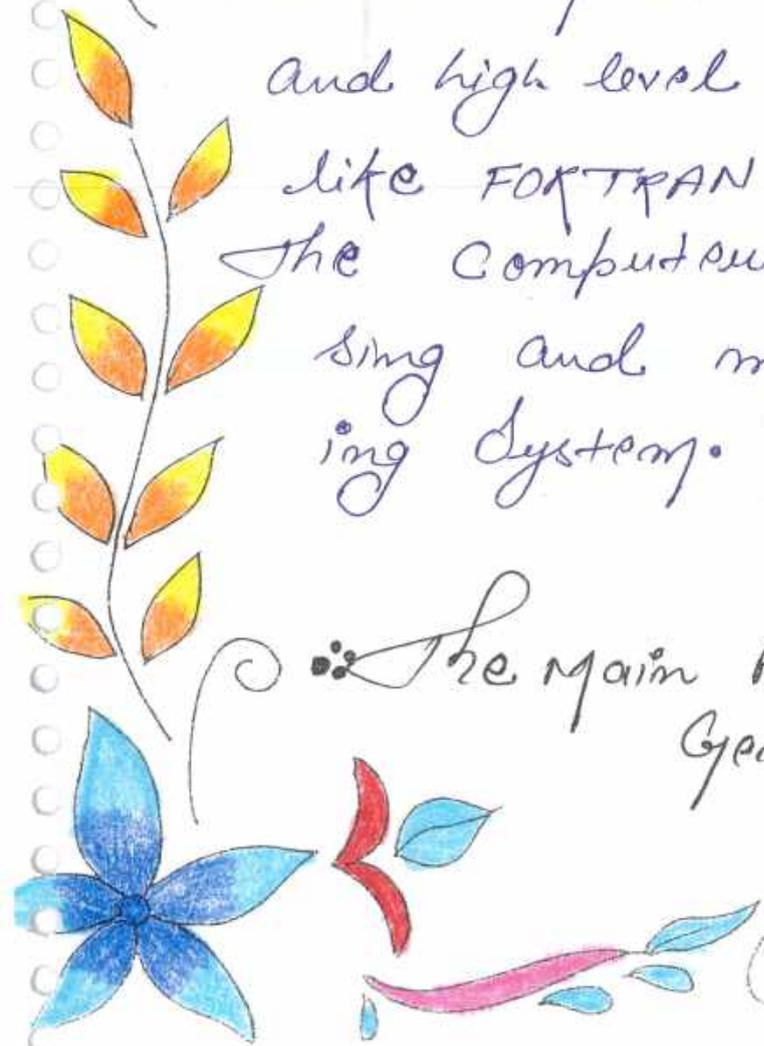
Transistors were invented in Bell Labs. The uses of transistors made it possible to perform powerfully and with due speed. It reduced the dimensions and price was generated by vacuum tubes. Central Processing Unit, memory, programming language and input and output units also came into the scene second generation.

21

The period of Second Generation was from 1959-1965. In this Generation, transistors were used that were cheaper, consumed less power, more compact in size, more reliable and faster than the first Generation machines made up of vacuum tubes. In this Generation, magnetic cores were used as the primary memory and magnetic tape and magnetic disks as secondary storage devices.

- In this Generation assembly language and high level language programming like FORTRAN, COBOL were used. The computer used batch processing and multiprogramming operating system.

• The main features of Second Generation are :-





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- Use of transistors
- Reliable in comparison to first Generation Computers.
- Smaller size as compared to first Generation Computers.
- Generated less heat as compared to first Generation Computers.
- Consumed less electricity as compared to first Generation Computers.
- Faster than first Generation Computers.
- Still very costly.
- AC required.
- Supported machine and assembly language.
 - IBM 1620
 - IBM 7094
 - CDC 1604
 - CDC 3600
 - UNIVAC 1108

1. The first part of the paper is devoted to a study of the properties of the function $f(x)$ defined by the equation $f(x) = x + f(x^2)$.

2. It is shown that the function $f(x)$ is continuous and differentiable for all $x > 0$.

3. The derivative of the function $f(x)$ is found to be $f'(x) = 1 + 2xf'(x^2)$.

4. It is proved that the function $f(x)$ is bounded on the interval $(0, 1)$.

5. The limit of the function $f(x)$ as $x \rightarrow 0^+$ is found to be $\frac{1}{2}$.

6. The limit of the function $f(x)$ as $x \rightarrow 1^-$ is found to be $\frac{1}{2}$.

7. The function $f(x)$ is shown to be concave down on the interval $(0, 1)$.

8. The function $f(x)$ is shown to be increasing on the interval $(0, 1)$.

9. The function $f(x)$ is shown to be symmetric about the line $x = \frac{1}{2}$.

10. The function $f(x)$ is shown to be a solution of the differential equation $f'(x) = 1 + 2xf'(x^2)$.

THIRD - GENERATION COMPUTER :-

During the third Generation, technology envisaged a shift from huge transistor to integrated circuits also referred to as IC. Here a variety of transistor were placed on silicon chips called semiconductor. The most feature was speed and reliability. IC was made from silicon and also called as silicon chips. A single IC has many transistors, registers and capacitors built on one thin slice of silicon. The volume size was reduced and memory space and dealing efficiency were increased during this generation. The period of third generation was from 1965-1971. The computers of third generation used integrated circuits (ICs).

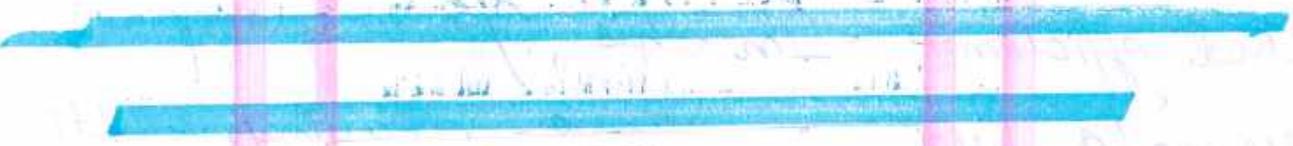


in place of transistors resistors and capacitors along with associated circuitry. The IC was invented by Jack Kilby. The development made computers smaller in size reliable and efficient. In this generation remote processing, time-sharing, multi programming operating system were used. High level language (FORTRAN - II to IV, COBOL, PASCAL PL/I, BASIC, ALGOL - 68 etc) were used during this generation.

• This main feature of this generation are:-

- IC used
- More reliable in comparison to previous two generations
- Smaller size
- Generated less heat.
- Faster.





- Lesser Maintenance.
- Costly.
- AC Required.
- Consumed Lesser Electricity.
- Supported high level language.

Some Computers of this Genera tion are:-

- IBM 360 Series
- Honey well - 6000 Series
- PDP (Personal Data Processor)
- IBM - 370/168
- IDC - 316

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∴ Fourth Generation Computer...

• In 1971 first microprocessor were used the large-scale of Integration SSI circuits built on one chip called microprocessor. The advantage of this technique is that one microprocessor can contain all the circuits required to perform arithmetic, logic and control function on one chip.

The computer using microchip were called micro-computer. This generation provided even smaller size of computer with larger capacities. These is not enough then very large scale Integrated (VLSI) circuit replaced LSI circuit. The Intel 4004 chip develop in 1971.

Future Generation Computer Science



The future of computer science is bright and full of possibilities. As technology continues to advance, we will see new and exciting applications of computer science in many different fields. From artificial intelligence to space exploration, the possibilities are endless.

One of the most exciting areas of research in computer science is artificial intelligence. AI has the potential to revolutionize many different industries, from healthcare to manufacturing. As AI continues to improve, we will see it being used in a variety of ways that we can't even imagine yet.

Another area of research that is gaining a lot of attention is quantum computing. Quantum computers are much more powerful than classical computers, and they have the potential to solve problems that are currently impossible to solve. This could have a major impact on many different fields, from cryptography to drug discovery.

Finally, there is also a lot of research being done in the area of robotics. As robots continue to improve, we will see them being used in a variety of ways that we can't even imagine yet. This could have a major impact on many different industries, from manufacturing to healthcare.



Located all the Component of PC. from the Central processing unit and memory to input output Control. The period of fourth Generation was from 1971-1980.

Computer of fourth Generation used very large scale Integrated VLSI Circuits having about 5000 Transistor and other circuit on a single chip made it possible to have micro-computer of fourth Generation.



Fourth Generation Computer become more Powerful, Compact, reliable and affordable. As a result it gave rises to Personal Computer, time sharing, real time network, distributed operating system were used. All the high level languages like C, C++ DBASE etc were used in this Generation.

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∴ The main features of Fourth Generation are:-

- VLSI technology used.
- Very cheap.
- Portable and reliable.
- Use of PCs.
- Very small size.
- Pipeline processing.
- No AC required.
- Concept of microcomputer was introduced.
- Great development in the field of networks.

• Computers become easily available.

Some Computers of this Generation were:-

- DEC 10
- STAR 1000
- PDP 11
- CRAY-1 (Super Computer)
- Cray-X-MP (Super Computer)

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❖ Fifth Generation Computers:-

The technology behind the fifth Generation of Computers. It always comp-
uters to behave like Human. It
is often seen in program like
voice recognition area of medicines
and entertainment within the
field of Games playing also it is
showing very good performance
where Computers are capable of
beating human competitors.

The speed as the highest size is the
smallest and area of use has remark-
ably increased. within the fifth
Generation Computers. Though not a
hundred percent AI has achieved
to date but keeping the sight to
that this dream also will become

Fifth Generation Computers

2:

The technology behind fifth generation computers is based on the use of logic programming. This is a form of programming that is more like natural language. It is based on the idea of knowledge representation and reasoning. The main goal of fifth generation computers is to create machines that can think and learn like humans. This is done by using logic programming and other advanced techniques. The first of these is logic programming, which is a form of programming that is based on the idea of knowledge representation and reasoning. The second is natural language processing, which is the ability of a computer to understand and generate human language. The third is artificial intelligence, which is the ability of a computer to perform tasks that require human intelligence. The fourth is machine learning, which is the ability of a computer to learn from data and experience. The fifth is robotics, which is the use of computers to control physical machines. These five technologies are the foundation of fifth generation computers. They are used to create machines that can think and learn like humans. This is the goal of fifth generation computers. They are designed to be more like humans than previous generations of computers. They are designed to be able to understand and generate human language, to perform tasks that require human intelligence, and to learn from data and experience. They are designed to be able to control physical machines. These are the five technologies that make up fifth generation computers. They are the foundation of the future of computing.

a reality soon.

• The Period of fifth Generation VLSI technology become VLSI (Ultra large Scale Integration) technology, resulting

in the production of microprocessor chips having ten million electronic

This Generation is based on parallel Processing hardware and AI (Artificial Intelligence) software. AI is an emerging branch in Computer Science which

intrept the means and method of making computers think like human beings. All high level language like C and C++ Java Net etc. are

Used - Generation.

Some Computer of this Generation

are:-

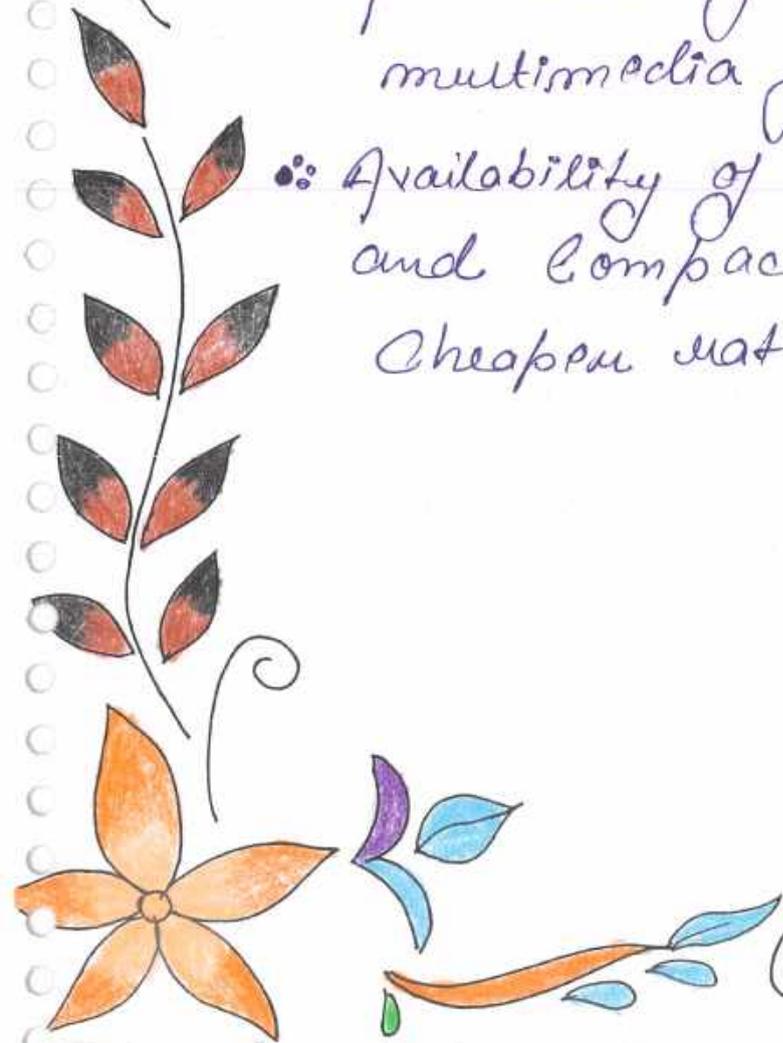
- (a) Desktop
- (b) Laptop
- (c) Note book
- (d) Ultra Book
- (e) Chrome book



46.

The main features of 5th Generation:-

- VLSI Technology.
- Development of true artificial Intelligence.
- Development of Natural language Processing.
- Advancement in Parallel processing
- Advancement in Super Conductor Technology.
- More User-friendly interfaces with multimedia features.
- Availability of every powerful and compact computer at cheaper rates.



The report of the
of the

CONCLUSIONS

• The first Generation was developed from 1940-1956 followed by the second Generation from 1956-1963 the third Generation from 1964-1971 the fourth Generation from 1971 until the present and the fifth Generation are still being developed.

The Computer made in the fifth Generation used VLSI technology Advancement in Super Conductor technology at parallel processing Development a large with artificial Intelligence.

CONCLUSIONS

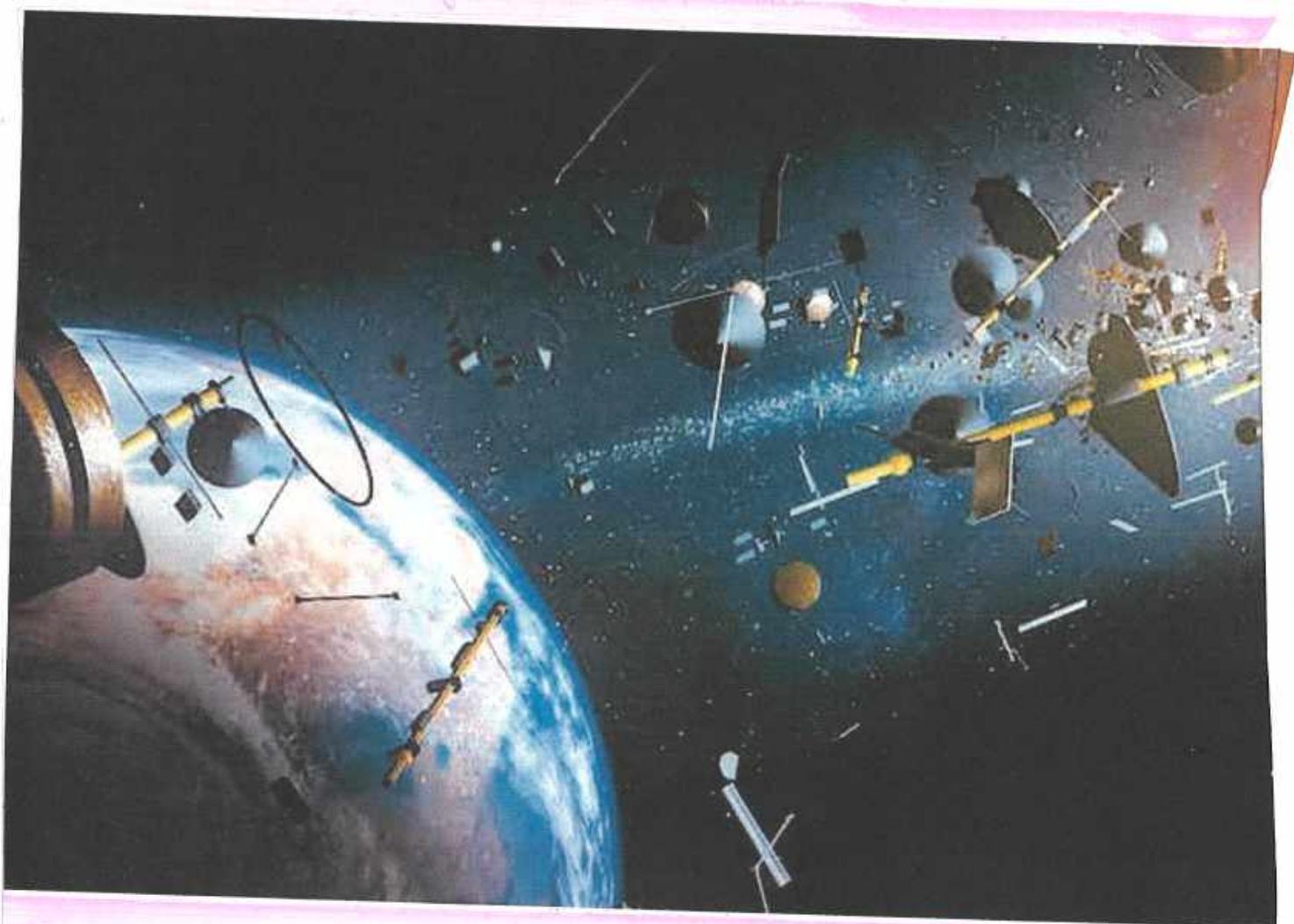
The first part of the report is devoted to a study of the general properties of the system. It is shown that the system is stable and that the response is bounded. The second part of the report is devoted to a study of the transient response of the system. It is shown that the transient response is overdamped and that the system reaches a steady state value. The third part of the report is devoted to a study of the frequency response of the system. It is shown that the system has a resonance peak at a certain frequency.

The above results show that the system is stable and that the response is bounded. The transient response is overdamped and the system reaches a steady state value. The frequency response shows a resonance peak at a certain frequency.



Satellite



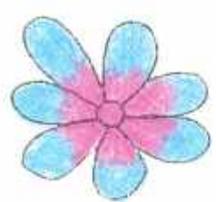
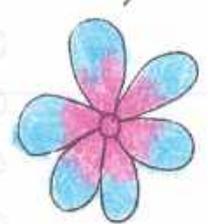
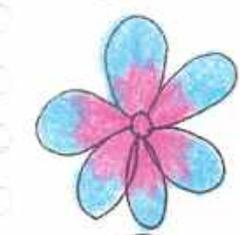


INTRODUCTION OF SATELLITE

• Satellite Communication is a system of transporting from one place to another using a communication. Satellites orbit around the Earth.

A Communication Satellites is an artificial Satellites that transmits the signal via a transponder by sending the receiver at different locations

Telephone, Radio, Television or internet and military application use Satellites Communication.



Introduction OF GALENA

The mineral galena is a lead sulfide (PbS) and is the most important source of lead. It is a cubic crystal system and is found in many different environments. It is a common mineral in igneous, metamorphic, and sedimentary rocks. It is also found in hydrothermal veins and in some types of sedimentary rocks. Galena is a heavy, metallic mineral that is often found in association with other lead-bearing minerals such as cerussite and anglesite. It is also found in association with zinc-bearing minerals such as sphalerite and zinc blende. Galena is a common mineral in many different types of rocks and is an important source of lead.

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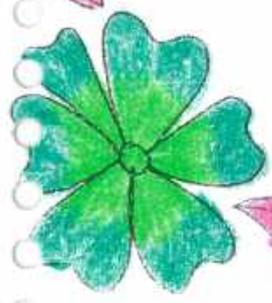
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These are different ways to Communicate and the propagation and Sky wave Propagation are the two ways Communication takes place for a certain distance. The Maximum distance covered by them is 1500 km, which was over come by Satellites Communication

The Satellites Communication are similar to the space mirror that help us bounce signals such as Radio, Internet Data and Television from one side of earth to another Place.

Most of the Satellite Communication are in geostationary orbit 22300 miles (35,900 km) above the equator, so that the Satellites appear stationary at same point in the sky.



There are different types of committees
The most common type of committee is the
ad hoc committee which is set up for a
specific purpose and usually dissolves
after it has completed its task. Other
types of committees are permanent
committees which continue to exist
and perform a regular function.

The committee system is a feature of
parliamentary government. It is a
body of members of the legislature
which is appointed to study a
particular subject and to report
back to the legislature. Committees
are used to deal with the large
amount of business that comes
before the legislature.

Committees are also used to
conduct investigations into
certain issues. They can hold
hearings and call witnesses.
This is particularly true of
select committees which are
appointed to look into a
specific area of public life.
They can make recommendations
to the legislature on the basis
of their findings.

∴ Purpose of Satellites

Communication:-

∴ The purpose of Communication Satellites is to relay the signal around the curve of the Earth allowing communication between widely separated geographical points.

Communication Satellites use a wide range of radio and microwave frequencies. To avoid signal interferences, International organisations have regulations for which frequency ranges or 'bands' certain organisations are allowed to use.

This allocation of bands minimize the risk of signal interference.

Satellites are specially made for mobile application such as communication to ships, vehicles

Planes, handsets etc.

Propose of State Letter

Government of India



Propose of State Letter
Government of India

History of Satellites Communication:-

❖ In October 1945 Arthur C. Clarke published an article titled "Extra-terrestrial Relays" in the British Magazine Wireless World. The article described the fundamentals behind the deployment of artificial Satellites in Geostationary orbit for the purpose of relaying radio signals.

Arthur C. Clarke is quoted as being the inventor of the concept of Communication Satellites and the term Clarke Belt is employed as a description of the orbit.

The first artificial Earth Satellites was Sputnik 1 which was equipped with an onboard radio-transmitter that worked on two frequencies of 20.005 MHz and

Geography of States

The geographical location of a state is determined by its position relative to other states and the world. It is influenced by natural factors such as latitude, longitude, and topography. The geographical location of a state also affects its climate, natural resources, and trade routes. The geographical location of a state is also influenced by human factors such as migration and political boundaries. The geographical location of a state is a key factor in determining its political and economic development.

and 40.002 MHz on 7 and 15 metres wave length.

The satellite was not placed in orbit for the purpose of sending data from one point on Earth to another, the radio transmission was meant to study the properties of radio transmission was meant to study the properties of radio wave distribution through out atmosphere.

The launch of Sputnik I was a major step in the exploration of space and rocket development and mark the beginning of the space age.

101 km/h at 1000 m
altitude

The first part of the study was
conducted for the purpose of
determining the effect of
altitude on the rate of
respiration of man at
high altitudes. The
purpose of this study was
to determine the effect of
altitude on the rate of
respiration of man at
high altitudes.

The second part of the study was
conducted for the purpose of
determining the effect of
altitude on the rate of
respiration of man at
high altitudes.

∴ How Satellites Communication

Work:-

• Satellites Communication similar to mirror that bounce signals such as radio, internet data and television from one side of earth to another. The stages are involved which explained the working of Satellites Communication.

∴ The Satellites Communication

Work:-

⇒ The are three stages in which Satellites Communication process in work and those are:-

- ★ UPLINK
- ★ TRANSPONDER
- ★ DOWN LINK

Section 2 - The Organization of the Firm

Points:

- The firm is a legal entity that can own property, enter into contracts, and sue or be sued.
- The firm is a collection of individuals who are organized to produce goods and services.
- The firm is a legal entity that can own property, enter into contracts, and sue or be sued.
- The firm is a collection of individuals who are organized to produce goods and services.

Section 3 - The Organization of the Firm

Points:

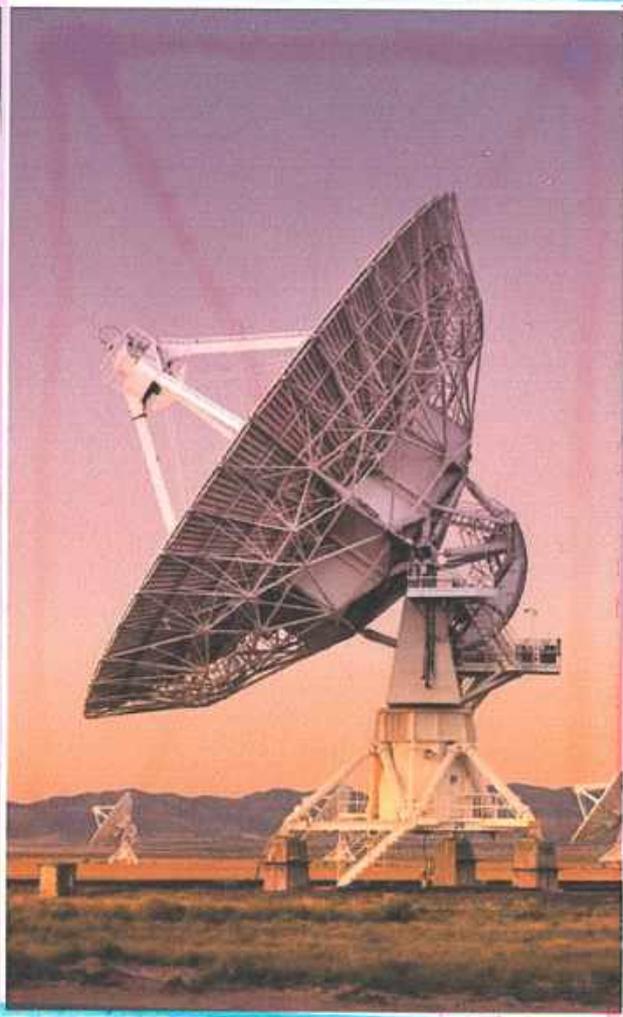
- The firm is a legal entity that can own property, enter into contracts, and sue or be sued.
- The firm is a collection of individuals who are organized to produce goods and services.

A DOWN LINK
 A TRANSFORMER
 A UP LINK

UPLINK :- 1st Consis der an ~~ex~~ examples of signal from a television In the the first stage. The signal from the television board cast on other side of the earth is first beamed up to satellites from the ground station on the earth. The process known as Uplink.

•• Transponder :- The second stage involves transponder such as radio receiver, amplifier and transmitter. The transponder boost the incoming signal and change its frequency so that the outgoing signal can be not attuned.

•• Downlink :- The final stage involves a downlink in which the data is sent to the another end of the receiver on the earth.



Types of Satellite ... Communication

∴ The Satellites Communication can be classified into three types which includes the following

(a) Fixed Satellites :-

The system aids in the data transmission across the world through a permanent point on the surface of the Earth. Fixed Satellite Services (FSS) mean the use of specific radio frequencies by satellites to deliver communication fixed on the Earth.

(b) Mobile Satellites :-

The system used in connecting aircraft, ships at remote areas. Mobile Satellite Services between mobile satellite station and one

Types of Gatelets

Gatelets are small, self-contained programs that run on a host machine. They are used to access data from a remote database or to perform other tasks. There are several types of gatelets, including:

- 1. Simple Gatelets: These are the most basic type of gatelets. They are used to access data from a remote database. They are typically used to retrieve data from a table or to insert data into a table.
- 2. Complex Gatelets: These are more advanced gatelets that can perform more complex tasks. They can be used to perform calculations, to filter data, or to perform other operations. They are typically used to perform data analysis or to generate reports.

or more space station or between space station used by this services by means of one or more space station.

Research Satellites:-

⇒ Research Satellites or Scientific carrier instrument to obtain data on magnetic field, space radiation earth and its atmosphere the sun or other star planet or any scientific research.

Depending upon their measurement objectives, research satellites primarily fly in one of the orbits of near polar sun synchronous orbit to allow them to observe the entire globe at same solar time each day or a mid inclination.

CONCLUSION

∴ Satellites Communication System has become an essential part of the world's telecommunication infrastructure, serving billion of people with Internet telephone.

∴ Satellites service have shifted away from telephone to radio and data delivery with television broadcasting and Internet services with latest application.

∴ There are some advantages of Satellites Communication that it is flexible and easy to put in circuit and user control the system.

Sudhansu
External Sign

