SNS COLLEGE OF TECHNOLOGY

Coimbatore-36.
An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

COURSE NAME : 19CST101 – PROGRAMMING FOR PROBLEM SOLVING

I YEAR/ I SEMESTER

UNIT – I INTRODUCTION TO PROBLEM SOLVING TECHNIQUES

Topic: Fundamentals of Computer, Computer Hardware, Computer Software
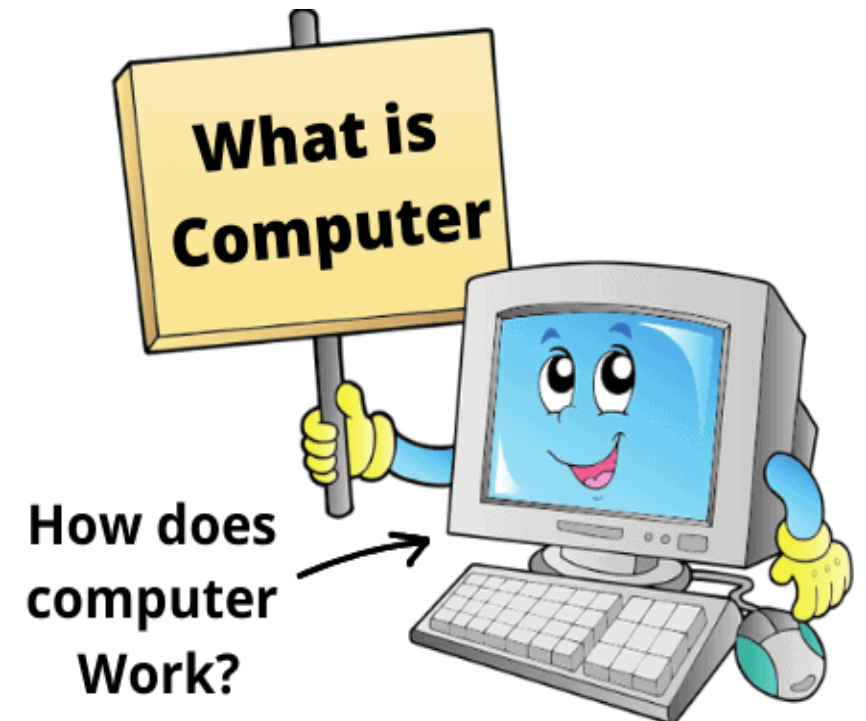
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What is Computer?

- The computer is an electronic machine that takes input from user, process the given input and generates output.

- In the form of useful information.
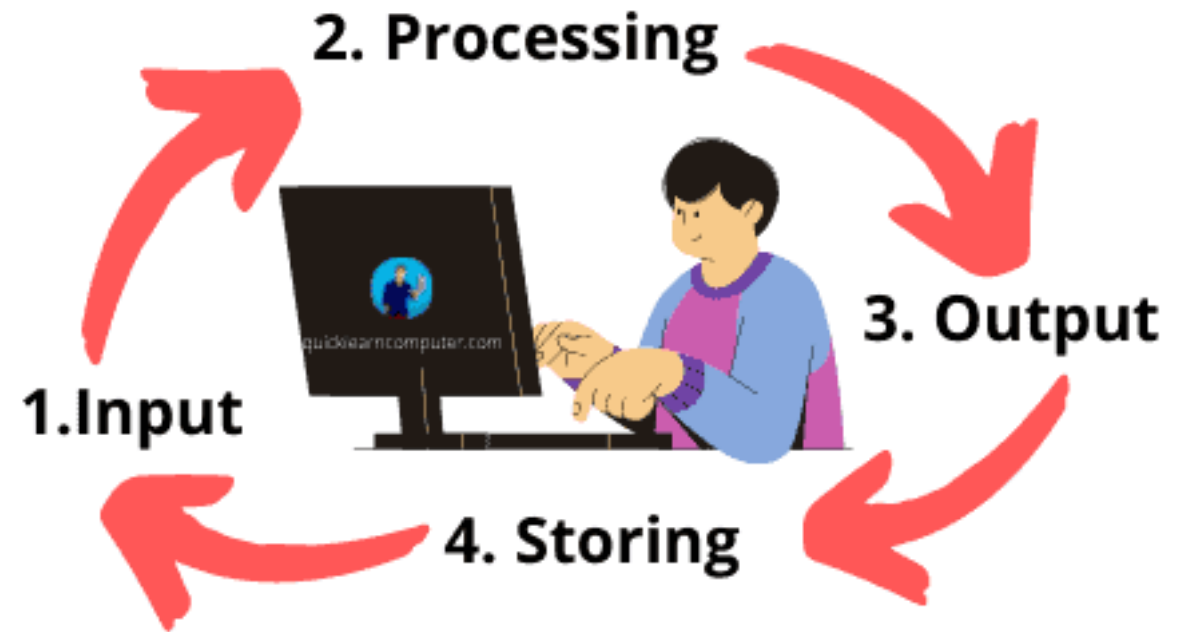
- The input is data, programs, user reply.

Parts of Computer:

Functionalities of Computer:

1.Input Function

2.Processing Function

3.Output Function

4.Storing Function

Basic Functions of Computer

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Characteristics of Computers:

1. High Speed

2. Accuracy

3. Storage Capability

4. Diligence

5. Versatility

6. Reliability

7. Automation

8. Reduction in Paper Work and Cost

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Generations of Computer:

Generations	Period	Technology
Early Period	1000BC-1940	Abacus, Pascal
1st generation	1946-1954	Vacuum Tubes
2nd generation	1955-1964	Transistors
3rd generation	1964-1977	Integrated Circuits
4th generation	Since 1975	Large Scale Integration
5th generation	Since 1980	Artificial Intelligence

Generations of computer

First Generation

Second Generation

Third Generation

Fourth Generation

Fifth Generation

Classifications of Computer System:

- **Classification of Computers On the Basis of Size**

    1.Micro Computer

    2.Mini Computer

    3.Mainframe computer

    4.Super Computer

- **Classification of Computer On the Basis of Type**

    1.Analog Computer

    2.Digital Computer

    3.Hybrid Computer

- **Classification of Computer According to Purpose**

    1.Special Purpose computer

    2.General Purpose computer