

TRINITY COLLEGE FOR WOMEN NAMAKKAL Department of Physics

PROGRAMMING IN C LANGUAGE 19UPHS02-ODD Semester

Presented by

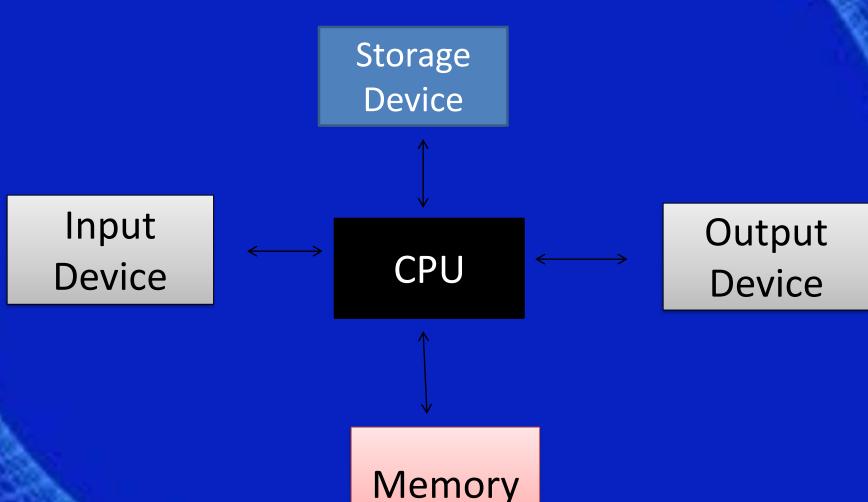
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Block diagram of a computer



Input unit

- 1. Keyboard alphabet, punctuation, special keys
 - Earlier 101 keys, now a days 104, standard keyboard called querty keyboard
- 2. Mouse -mechanical, opto mechanical, optical
- 3. Mouse pad
- 4. OCR -optical character recognition, read the text.
- 5. OMR optical mark recognition, accept pen, pencil.
- 6. Touch screen -display screen

Output unit

1. Moniter:

- a) Monochrome: display only one colour
- b)Gray scale: display gray colour only
- c) Colour: display 16 colours to 16 million colours

2. Printer: 5 types

- i) Daisy wheel plastic or metal, very slow, can't print pictures.
- ii) Dot matrix several pins , combination of dot form characters, cost low, low quality, very noisy
- iii) Ink jet –high quality but very slow, require special ink
- iv) Laser high quality, very fast, print various fonts and images
- v) Line high speed, print variety of fonts

CPU

Brain of the computer, execute program instruction Three parts

- 1. ALU (Arithmetic and Logic Unit)
 - i) Perform arithmetic and logical operations
 - ii) Arithmetic addition, subtraction, multiplication and division.
 - iii) Logical Comparisions eg) < , > ,= ,. In logical operation result either true (1) or False (0).

2. Control unit

Control all parts of computer

Trans signals between input device, ALU, Memory and Output device

3. Memory Unit

Store the data temporarily

Capacity of the memory vary from computer to computer

4. Storage device

Store the data permanently

Eg) CD, DVD, Floppy disc, Pen drive, etc.

Programming languages

- The language used in communication of computer instructions
- Help to communicate user with computer
- Three types
- 1. Machine language (low level)
- 2. Assembly language(symbolic)
- 3.Procedure oriented language (high level)

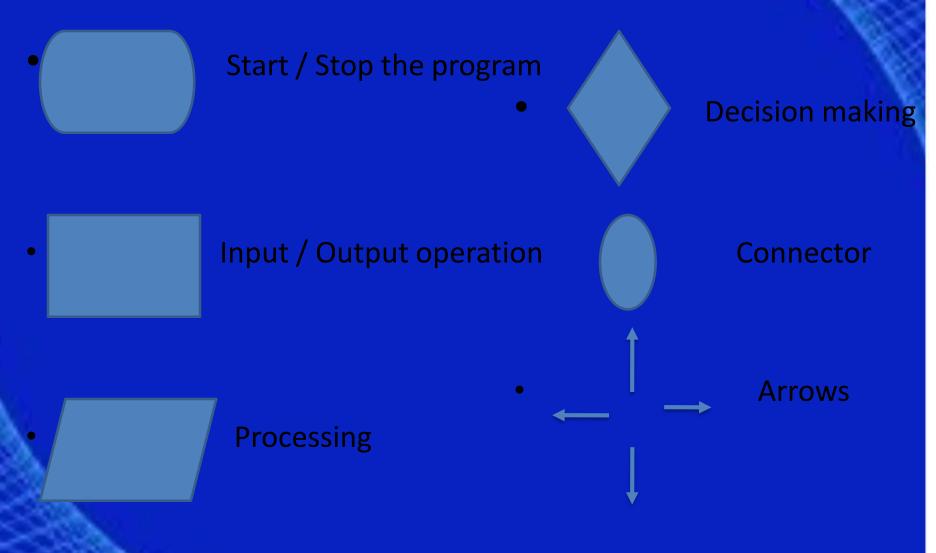
Example Write an algorithm to add two numbers

- Step 1: Start the program
- Step 2: Input two numbers A and B
- Step 3: Find sum of A +B
- Step 5 : Store the result
- Step 6 : Print the result
- Step 7: stop the program

Flow chart

- Diagrammatic representation
- Draw some special rules
- Symbols can be prescribed by ANSI (American National Standard Institute)
- The direction of flow chart from left to right or top to bottom
- It should be clear, neat, and easy to follow

Symbols



THANK YOU

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