CS & IT ENGINEERING

C-Programming

C Programming Fundamentals



Lecture No.- 01

Topics to be Covered



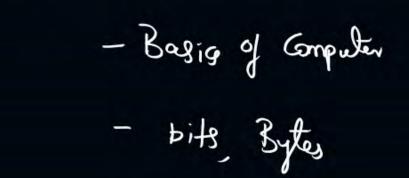








Computer Fundamentals



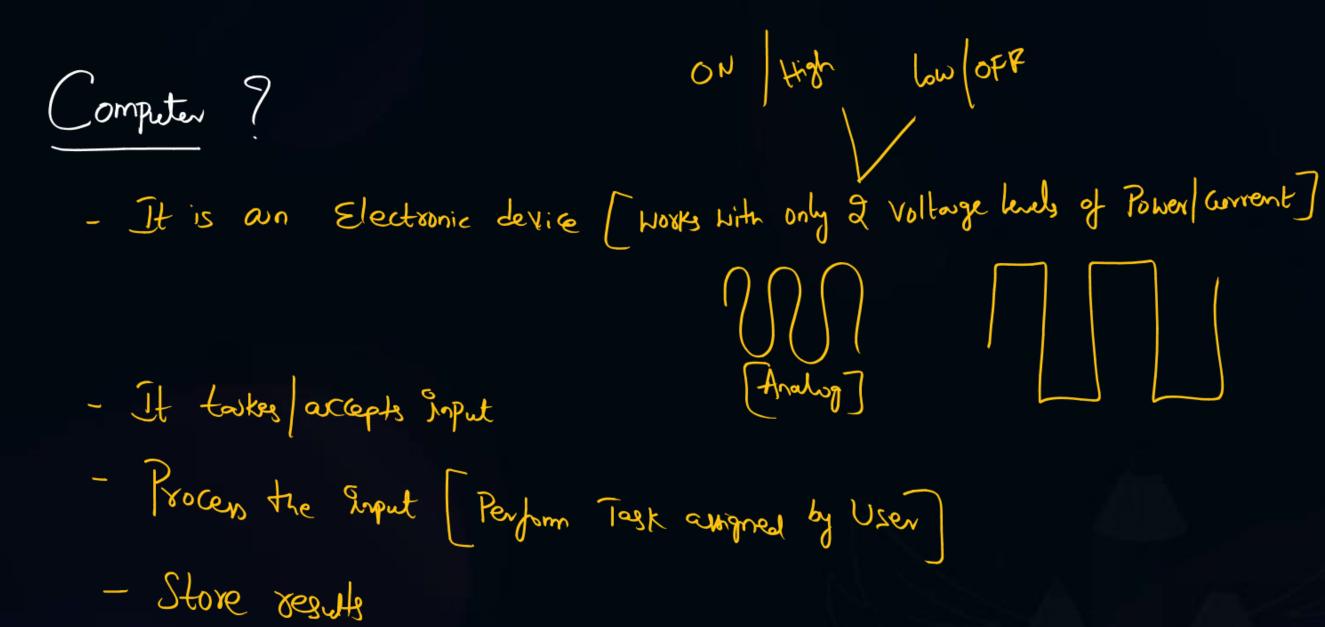
| Current Academic Qualification

a) B. E B. Tech 4th Year

b) 3rd Year

c) 2nd Vear

d) 1st Year

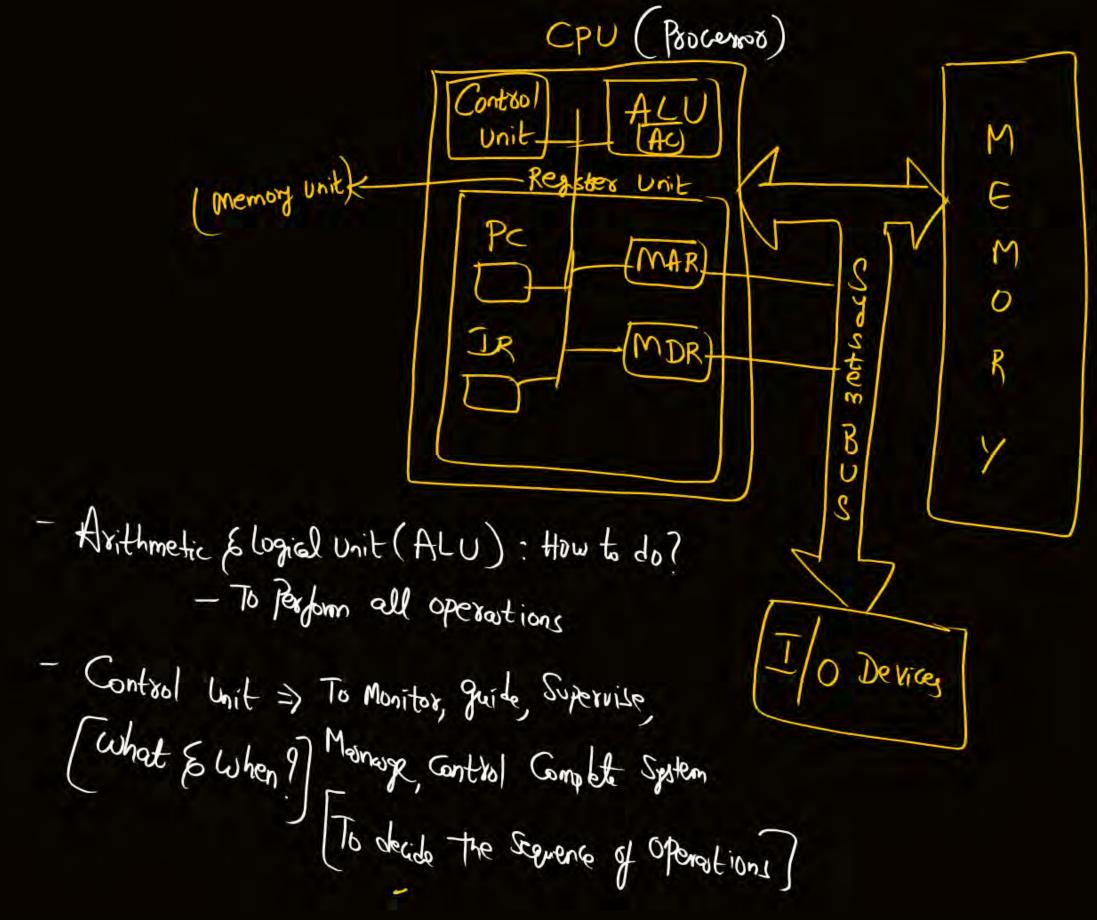


- Rodices output Results

Computer is the Combination of Hardware and Software = Physial -> input Devices Keyboard, Mouse, Light Pon, Light Paud, Joystick, Leb Genera Scanner input/output Devices -Monitor Display Delice > Output Device ! Peripherals Printer Speakers Plotters Ly which helps for Computer trunctionality Ex: Carbinet (or) System Case Mother booxd, SMPS, Goling for AGD (Grophic) God, Memory Devices, Cpu

Software: Logical entity - Developed Using a Progra	umming Language (c, C++, Java, Rython, Pt) PERL, RUBY, R-
Basic Functional Units of Compute	v .
a) input Devices b) Output Devices	7/P Process store
c) Memory	

d) CPU (Central Processing Unit)



Regster: Group of Slip flops

(D-Hlip-flop: Memory Device

that holds I bit of
information:

8-bit Processor => 1 Register = 8 bits
16-bit Processor => = 16bits
32-bit 11 = 321 bits
64-bit 11 = 64-bits

Registers The General Purpose Registers (GPRs)	
- Special Purpose Registers (SPRs)	
- Accumulator > ALU's dedicates ogister, (youth Poud scr	atch Rod)
- Program Gunter => Address of Next Instruction to be Ex	
- Instruction Register > Story Currently Executing Tystruction.	
- Memory Address Repister > Address of data required for Exec	ation
Memory Data Register - Data for Current That Execution	

MEMORY

fastest, Smallest

Registers

bits, Bytes

Cache Memory

KB, MB

Random Accen Memory (RAM)

Read-only Memory (ROM)

Remard Cot)
Row Maring
MB, GB

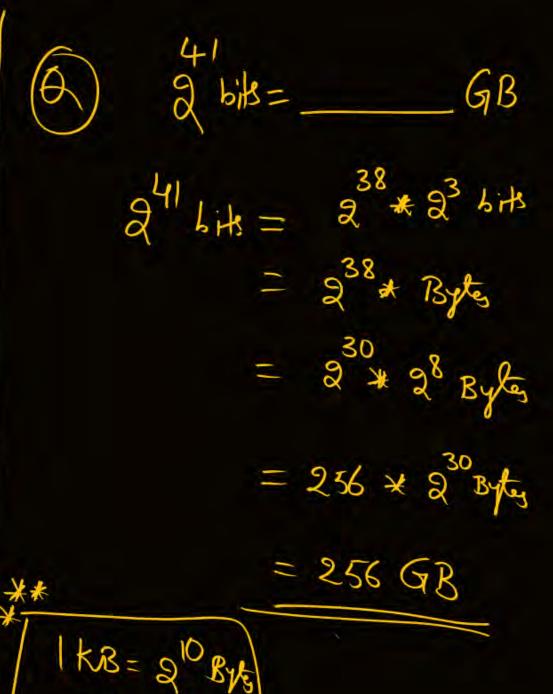
Slowest

Secondary Memory (Hourddisk CD, DVD, BD, Pen-drikg)

GB , Teros Byte, Zetas Bytes

(a)
$$8MB = -B_{pt}$$

a) a^{13} b) a^{20} c) a^{23} d) a^{26}
= $8 * a^{10} * a^{10}$ Bytes
= $a^{3} * a^{10} * a^{10}$ Bytes
= $a^{3} * a^{10} * a^{10}$ Bytes



1MB = 220B

1 GB = 230 B

17B = 240B



2 mins Summary



Topic	One	\Rightarrow	Computer	Introduction
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THANK - YOU