

Computer Fundamentals

What is computer?

An electronic device that process data acc. to the instructions.

Basic Function

Input : accept data

Processing : Process / performs operations on data

Output : present processed data

Storage : Save data for later use

Types of Computer :

- | | | |
|------------------|-------------|---------------|
| ① Super Computer | ② Mainframe | ③ Workstation |
| ④ Server | ⑤ Micro | ⑥ Mini |

1) Super computer : Extremely powerful, used for complex calculation.

Eg PARAM-UTKARSH , PARAM-GANGA

2) Mainframe : Large, high performance computer for business use

Eg ATM

3) Work Station : used for special task for engineering and design.

Asii-Decimal

0-40	A	65	K	75	U	85	a	97	k	107	u	117
1-41	B	66	L	76	V	86	b	98	l	108	v	118
2-42	C	67	M	77	W	87	c	99	m	109	w	119
3-43	D	68	N	78	X	88	d	100	n	110	x	120
4-44	E	69	O	79	Y	89	e	101	o	111	y	121
5-45	F	70	P	80	Z	90	f	102	p	112	z	122
6-46	G	71	Q	81			g	103	q	113		
7-47	H	72	R	82			h	104	r	114		
8-48	I	73	S	83			i	105	s	115		
9-49	J	74	T	84			j	106	t	116		

dec Hex

Asii	dec	Hex	Oct
A	<u>65</u>	41	101
B		42	102
C		43	103
D		44	104
E		45	105
F		46	106
G		47	107
H		48	<u>110</u>
I		49	<u>111</u>
J		4A	112
K		4B	113
L		4C	114
M		4D	115
N		4E	116
O		4F	117
P		50	<u>120</u>
Q		51	121
R		52	122
S		53	123

Addition

$$0+0 = 0$$

$$0+1 = 1$$

$$1+0 = 1$$

$$1+1 = 10$$

Subtraction

$$0-0 = 0$$

$$0-1 = \text{Borrow}$$

$$1-0 = 1$$

$$1-1 = 0$$