Sept 10th

Date :

Nested if else :

Syntax :

```
if (cond1): # outer if
    if (cond2): # inner if
        Statements of inner if
    else :
        Statement of inner else
else :
    Statement of outer else
```

Ex:-

```
n = int (input())
if (n>0):
    if (n>0):
        print ("+ve")
    else:
        print ("Zero")
else :
    print ("-ve")
```

8 4 2 1

3 2 1 0

2 | 2 | 2 | 2

1 bit → 0, 1

2 bit → 0, 1, 2, 3

3 bit → 0, 1, 2, 3, 4, 5, 6, 7

4 bit → 0, 1, 2, ... 15.

2	2
0	0
0	1
1	0
1	1

2	1	0	
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	0	0	4
1	0	1	5
1	1	0	6
1	1	1	7

Bitwise Operators

& | ~ >> <<

T.Th. Th H T U

1 2 4 5

1 2 4 5

T.Th. Th. H T U

1 2 4 5

1 2 4 5,000