```
syntax of & nexted statement
if (condition 1):
   if (condition 2):
     statement of condition 2
      Statement of inner if else (conditions)
   else
else:
  Statement of outer if else (condition).
Eg 3,
   n = float (Input ('enter the number: "))
   if (n>0)
    if (n70)
      Print ("positive")
              where with f no price - It borest
                            in transiture of an)
  else:
print ("regative")
    . Who to ans it a survey on the doch or mayor a street
7. Python bitwise operation
   are used to compare (binary) numbers
1. and (8)
                                     post ("eou
- Result is 1, only if both bits are 1
   Eg. 6- 583=1 2 2 2 2 2 2 2 2 2 32 16 8 4 2 1
```

0001

3. 
$$\times 0^{2}$$
 ( $\wedge$ )

- Result is 1, if bits are different.

Eq: -5  $\wedge$  3 = 6

0 1 0 1

 $\times 0^{2}$  = 0 1 10 = 6

- Shift bits to the left, & fills with 'o' on the right.

25 24 23 22 21 20

32 16 8 4 2 1

5. Signed right shift (>>) - Shift bits to the sight. - for + we no. -> fells left side with 'o'. - for - re no. -> fills left side with '?' 101100 Eq '. (positive) -> 5>>2 = 1 8 4 201 001001 000000 -10 >>1 = -5 9= 01 10 (= 10x (22) still the (22) 

01 = 1779

01 - 5 + 1

06 8 633

"6 '6 "6 "6 "6 "6

1 0 4 8 21 68