conditional operator:
it allows us to make decisions in code. they check conditions (expression that result in true or false) and execute different blocks of code accordingly

Types of conditional statement:
if statement: execute a block only if the condition is true
2. if..else statment: provide two paths - one if condition is true, another if false
3. if..elif..else ladder: multiple conditions checked one by one
4. nested if: using one if inside another

if statement: execute a block only if the condition is true
syntax:

```
if(condition):
        statement
```

```
x=10

if (x>5):
        print("x is greater then 5")
```

2. if..else statment: provide two paths - one if condition is true, another if false
syntax:

```
if(condition):
        statement
else:
        statement
```

```
x=10

if (x>5):
        print("x is greator then 5")
else:
        print("x is less then 5")
```

3. if..elif..else ladder: multiple conditions checked one by one
syntax:

```
if(condition1):
        statement
elif(condition2):
        statement2
elif(condition3):
        statement3
else:
```

```
        statement4
```

other program

```
if(condition1):
        statement
else:
        if(condition2):
                statement2
        else:
                if(condition3):
                        statement3
                else:
                        statement4
```

Bitwise operator:

Bitwise operators are operators that work directly on the binary (bit-level) representation of integers. They perform operations bit by bit

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nested if else:

syntax:

```
if(cond1): //outer if
        if(cond2): //inner if
                statement of inner if
        else:
                statement of inner else
else:
        statement of outer if
```

```
n = int(input())

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