

Bitwise Operator:

Bitwise and (&) : $1 \& 2 = 0$

Bitwise or (|) : $1 | 2 = 3$

Bitwise not (~) : $\sim 0 = -1$

Conditional Statements:

Conditional statements are the statements which controls the flow of execution.

Types :

1. If statement:

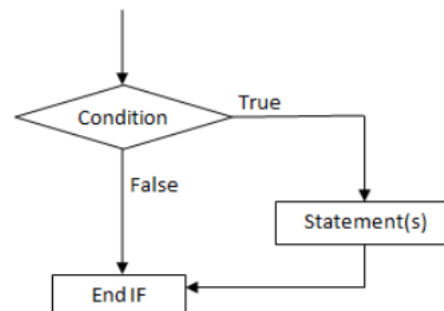
It will execute the blocks of code if the provided condition is true.

Syntax:

```
if (condition):  
    Statement
```

Ex:

```
if (5>4):  
    print("Greater")
```



2. If else statement:

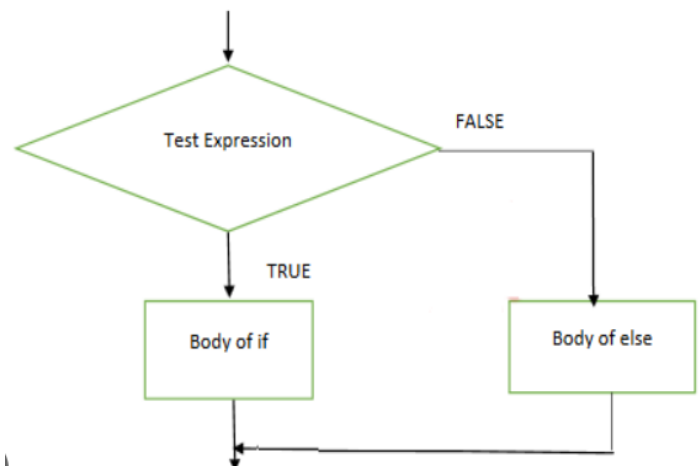
It will execute the blocks of code if the provided condition is true otherwise it will executes the else block.

Syntax:

```
if (condition):  
    Statement 1  
else:  
    Statement 2
```

Ex:

```
if (5>4):  
    print("Greater")  
else:  
    print("Lesser")
```

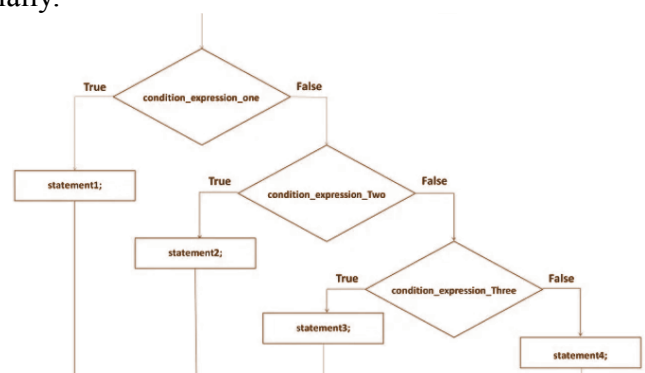


3. If else ladder (if ... elif) statement:

It used handle multiple conditions sequentially.

Syntax:

```
if (condition-1):  
    Statement - 1  
elif( condition - 2):  
    Statement - 2  
else:  
    Statement - 3
```



Ex:

```
if (5>10):  
    print("Greater")  
elif(5 > 4):  
    print("Greater")  
else:  
    print("Lesser")
```

4. Nested if statement:

It will is used to execute the nested conditions.

Syntax:

```
if (condition -1 ):  
    if(condition-2):  
        Statement -1  
    else:  
        Statement -2  
else:  
    Statement 3
```

Ex:

```
if (num > 10):  
    if(num%2==0):  
        print("Even")  
    else:  
        print("Odd")  
else:  
    print("Lesser")
```

