Practical No:05

Study of conditional statements, WAP to print largest of the three no.

Control Flow:

Conditional statement:

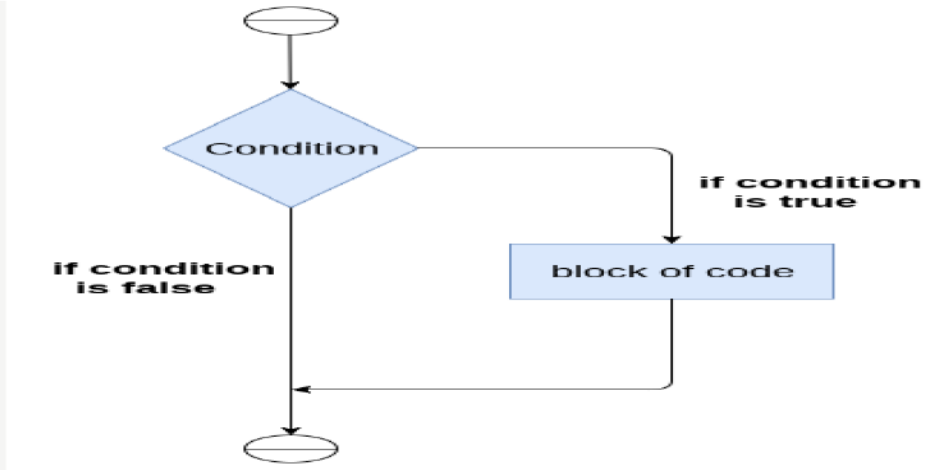
Python If-else statements

Decision making is the most important aspect of almost all the programming languages. As the name implies, decision making allows us to run a particular block of code for a particular decision. Here, the decisions are made on the validity of the particular conditions. Condition checking is the backbone of decision making.
In python, decision making is performed by the following statements.

Statement	Description
If Statement	The if statement is used to test a specific condition. If the condition is true, a block of code (if-block) will be executed.
If - else Statement	The if-else statement is similar to if statement except the fact that, it also provides the block of the code for the false case of the condition to be checked. If the condition provided in the if statement is false, then the else statement will be executed.
Nested if Statement	Nested if statements enable us to use if ? else statement inside an outer if statement.

The if statement

The if statement is used to test a particular condition and if the condition is true, it executes a block of code known as if-block. The condition of if statement can be any valid logical expression which can be either evaluated to true or false.



The syntax of the if-statement is given below.

```
1. if expression:
2.     statement
```

Example 1

```
1. num = int(input("enter the number?"))
2. if num%2 == 0:
3.     print("Number is even")
```

Output:

```
enter the number?10
Number is even
```

Example 2 : Program to print the largest of the three numbers.

```
1. a = int(input("Enter a? "));
2. b = int(input("Enter b? "));
3. c = int(input("Enter c? "));
4. if a>b and a>c:
5.     print("a is largest");
6. if b>a and b>c:
7.     print("b is largest");
8. if c>a and c>b:
9.     print("c is largest");
```

Output:

```
Enter a? 100
Enter b? 120
Enter c? 130
c is largest
```

Result: We have successfully studied conditional statements.