Conditional Statements

Operator:
Operator are special symbols that are used to perform operations on operands.
Eg: +,-,*,/
Operands:
The Operands are the values on which operators act on.
Eg: **X**+**Y**

There are different types of Operators in python:
1)Arthemetic Operators: +,-,*,/,%,**,//
2)Assignment Operators: = =,+=,-=,*=,/=,%=,//=
3)Comparision Operator: <,>,<=,>=,==,!=
4)Logical Operator: And,or,Not
5)Bitwise Operator: &,|,^,~,<<,>>
6)Membership Operator: in,not in
7)Identity Operator: is,is not

Conditional Statements:
These are the fundamental programming constructs that allows you to control the flow of your programming constructs that allows you to control the flow of a program.

→Conditional Statements are also called "**Decision Making Statements**".

Here, are the different types of conditional statements:
1)Simple if
Syntax:

```
If condition:
        print("statement")
```

2)if-else
Syntax:

```
If condition_False:
        print(" ignore statement")
  else:
        print("Statement")
```

3)if-elif-else
Syntax:

```
If condition_a:
        print(" statement")
```

```
        Elif condition_b:
                print("statement")
        else:
                print("Statement")
```

4)Nested If

Syntax:

```
    If a>b:
            If a>c:
                print(" a is bigger")
            else:
                print("c is bigger")
        else:
            If b>c:
                print("b is bigger")
            else:
                print("c is bigger")
```

5)Short-hand-if

Syntax:

```
    If a>b: print("a is big")
```

6)Short-hand-if-else: if the condition is True it will prints the L.H.S and if the condition fails R.H.S

Syntax:

```
    a=2
    b=3
print("True statement") if a<b else print("False Statement")
```

<u>Jumping Statements:</u>

Jumping statements are actually known as Transfer Statements

There are three types

1)Break

2)Continue

3)Pass