

```
In [1]: 1 a=5
        2 print(a) #value inside variable
```

5

```
In [2]: 1 a==5
        2 print(a==5)      #5==5      so it give TRUE
```

True

```
In [3]: 1 print(a==6)      # 5==6  so it give FALSE
```

False

```
In [4]: 1 print(a<6)      # 5<6  so it give TRUE
```

True

```
In [5]: 1 # IF CONDITION - To check if condition is True
        2
        3 num1=20
        4 num2=30
        5 if num1>num2:
        6     print("num2 is greater than num1")
```

```
In [6]: 1 # Nested IF
        2 # We can use if statement inside of another if statement
        3
        4 a=50
        5 if a>10:
        6     print("It is a number above 10")
```

It is a number above 10

```
In [7]: 1 a=50
        2 if a>20:
        3     print("It is a number above 20")
        4 if a>40:
        5     print("It is a number above 40")
```

It is a number above 20
It is a number above 40

```
In [8]: 1 a=50
2 if a>20:
3     print("It is number above 10")
4 if a>30:
5     print("It is number above 30")
6 if a>40:
7     print("It is number above 40")
```

It is number above 10
It is number above 30
It is number above 40

```
In [9]: 1 a=50
2 if a>10:
3     print("It is number above 10")
4 if a>20:
5     print("It is a number above 20")
6 else:
7     print("It is above 50")
```

It is number above 10
It is a number above 20

```
In [10]: 1 # ELIF CONDITION
2 #If previous conditions were not true then we use this condition
3
4 a=10                                # a=10
5 b=10                                # b=10
6 if b>a:                             # 10>10
7     print("Bis greater than a")
8 elif a==b:
9     print("a is equals to b")
```

a is equals to b

```
In [11]: 1 # ELSE CONDITION - The condtion is used if proceding condition fails
2
3 a=50
4 if a>20:                             # 50>20 ---TRUE
5     print("It is a number above 20")
6     if a>35:
7         print("It is a number above 35")
8     else:
9         print("It is not above 50")
```

It is a number above 20
It is a number above 35

```
In [12]: 1 # PASS CONDITION
2 #If statements cannot be empty, but at some cases if...
3 #...we pass IF statement with no content, put 'PASS'
4 # if we do not know currently what to type or...
5 #...what condition give here then we use 'pass'
6 a=50
7 b=60
8 if b>a:
9     pass
```

```
In [13]: 1 a=50
2 b=20
3 if a>10:
4     pass
5 print("Hello")
```

Hello

```
In [14]: 1 a=20
2 b=30
3 if (a<b):
4     pass
5 else:
6     print(b<a)
```

```
In [15]: 1 a=20
2 b=30
3 if (a>b):
4     pass
5 else:
6     print(b<a)
```

False

```
In [17]: 1 a="Repository"
2 print("End of",a)
```

End of Repository

```
In [ ]: 1
```