

conditional statements

1. if
2. else
3. elif
4. nested if

In [2]:

```
1 a,b=12,10
2 if(a<b):
3     print("a is greater than b")
4 else:
5     print("a is less than b")
```

a is less than b

In [3]:

```
1 n1=int(input("enter num 1:"))
2 n2=int(input("enter num 2:"))
3 n3=int(input("enter num 3:"))
4 if(n1>n2 and n1>n3):
5     print(n1, "is greater")
6 elif(n2>n1 and n2>n3):
7     print(n2, "is greater")
8 else:
9     print(n3, "is greater")
```

enter num 1:8
enter num 2:20
enter num 3:-5
20 is greater

In [3]:

```
1 n1=int(input("enter a number"))
2 if (n1%2==0):
3     print("even")
4 else:
5     print("odd")
```

enter a number4
even

Nested if

In [8]:

```
1 n=int(input("enter number"))
2 if(n!=0 and not(n<0)):
3     if(n%2==0):
4         print(n,"is even")
5     if(n%2!=0):
6         print(n,"is odd")
7 else:
8     print(n,"not a positive num")
9
```

enter number-8
-8 not a positive num

Looping statements

1. for
2. while

In [9]:

```
1 for i in range(5): # i Starts from 0
2     print(i)
```

0
1
2
3
4

In [10]:

```
1 for i in range(1,5): #i starts from 1
2     print(i)
```

1
2
3
4

In [15]:

```
1 for i in range(0,10,2): # 2 = step value
2     print(i,end=" ")
```

0 2 4 6 8

In [23]:

```
1 for i in range(10,0,-1): # reverse order printing (intial,end,logic)
2     print(i)
```

10
9
8
7
6
5
4
3
2
1

In [26]:

```
1 lst=[1,5,2,8,10]
2 for j in lst:
3     print(j)
```

1
5
2
8
10

In []:

```
1
```