

## CONDITIONAL STATEMENT

- if
- elif
- else
- nested if

In [3]:

```
1 a,b=12,13
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 [1]:

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

enter 1st number: 8  
enter 2nd number: 890  
enter 3rd number: 09  
890 is big number

In [2]:

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

enter n number: 40  
40 is even number

In [3]:

```
1 n1=int(input("1st num: "))
2 n2=int(input("2nd num: "))
3 n3=int(input("3rd num: "))
4 n4=int(input("4rt num: "))
5 if(n1>n2 and n1>n3 and n1>n4):
6     print(n1,"n1 is big:")
7 elif(n2>n1 and n2>n3 and n2>n4):
8     print(n2,"n2 is big:")
9 elif(n3>n1 and n3>n2 and n3>n4):
10    print(n3,"n3 is big:")
11 else:
12    print(n4,"n4 is big:")
```

1st num: 70  
2nd num: 90  
3rd num: 80  
4rt num: 60  
90 n2 is big:

NESTED IF

In [12]:

```
1 n=int(input("enter a number: "))
2 if(n!=0): # (10==10)
3     if(n%2 == 0):
4         print(n,"is even number")
5 if(n%2 != 0):
6     print(n,"is odd number")
7 else:
8     print(n,"is whole number")
```

enter a number: 1  
1 is odd number

In [10]:

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

enter a number: 80  
80 is even number  
80 is not a positive number

## Looping statements

- a for loop is used for iterating over a sequence(list,tuple,dictionary,a set or string)
- function: range

In [14]:

```
1 fruits =["apple","banana","cherry","gova"]
2 for i in range(1,5):
3     print(i)
```

1  
2  
3  
4

In [15]:

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

1 3 5 7 9

In [17]:

```
1 for i in range(2,11,2):
2     print(i)
```

2  
4  
6  
8  
10

In [18]:

```
1 for i in range(10,0,-1):
2     print(i)
```

10  
9  
8  
7  
6  
5  
4  
3  
2  
1

In [20]:

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

1  
5  
2  
8  
10

In [ ]:

1