Conditional Statements

- if
- elif
- else
- · 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")</pre>
```

a is less than b

In [3]:

```
1    n1 = int(input("Enter 1st number: ")) # 8
2    n2 = int(input("Enter 2nd number: ")) # 13
3    n3 = int(input("Enter 3rd number: ")) # -20
4    if(n1>n2 and n1>n3): # n2<n1 and n3<n1
        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: 13
Enter 3rd number: -20
13 is big number

In [4]:

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

Nested if

```
In [14]:
```

```
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    elif(n%2 != 0):
6        print(n,"is odd number")
7  else:
8    print(n,"is not a positive number")</pre>
```

Enter a number:13
13 is odd number

In []:

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

In []:

```
1  n = int(input("Enter a number:"))
2  if(n == 10): # (10 == 10)
3   if(n%2 == 0):
        print(n, "is even number")
5   if(n%2 != 0):
        print(n, "is odd number")
```

Looping statements

• A for loop is used for iterating over a sequence(list, tuple, dictionary, a set, or string)

In [15]:

3 4

```
1 for i in range(5): # 0 to n-1
2  print(i)

0
1
2
```

```
In [16]:
```

```
for i in range(1,5): #i=1,i=2,i=2+1,i= 3+1
 2
        print(i)
1
2
3
4
In [20]:
   for i in range(1,11,2):
 2
        print(i)
1
3
5
7
9
In [21]:
    for i in range(2,11,2):
 1
        print(i)
 2
2
4
6
8
10
In [22]:
    for i in range(10,0,-1):
 1
 2
        print(i)
10
9
8
7
6
5
4
3
2
1
```

```
In [23]:
```

```
for i in range(10,0,-2):
 2
        print(i)
10
8
6
4
2
In [24]:
 1
    lst = [1,5,2,8,10]
    for j in 1st:
 3
        print(j)
1
5
2
8
10
```

In [7]:

```
1 x = 4
2 x += 2
3 print(x)
```

6

In [8]:

```
1 a,b = 5,3
2 a += b
3 a -= b
```

In []: