Conditional statements

- if
- elif
- else
- · Nested if

In [1]:

```
1  a,b = 10,20
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]:

```
enter a value = 34
enter b value = 22
enter c value = 11
34 is greater
```

In [7]:

```
1    n1 = int(input("enter value = "))
2    r = n1 % 2
3    if(r == 0):
4         print(n1," is even")
5    else:
6         print(n1,"is odd")
```

```
enter value = 45
45 is odd
```

Nested if

In [13]:

```
n = int(input("enter n value = "))
2
  if(n == 12):
3
       if(n>6):
4
           print(n,"is greater than 6")
5
       if(n<6):
           print(n,"is less than 6")
6
7
8
  else:
9
       print(n,"is not equal to 12")
```

enter n value = 12
12 is greater than 6

In [23]:

```
1  n = int(input("enter a value: "))
2  if(n > 0):
3    if(n % 2 == 0):
4        print(n,"is even")
5     if(n % 2 != 0):
        print(n,"is odd")
6        print(n,"is not positive")
```

enter a value: -56
-56 is not positive

Looping statements

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

In [25]:

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

0
1
2
3
4

In [28]:

1  for i in range(1,5): # range(first value, last) here last one is not considered
2     print(i)
```

1 2

3

4

```
In [29]:
```

```
1 for i in range(1,10,2): # i value incremented by 2
 2
        print(i)
1
3
5
7
9
In [34]:
   for i in range(2,11,2):
        print(i,end = " ") # for sidewise printing values
 2
2 4 6 8 10
In [39]:
    for i in range(10,0,-1):
 1
 2
        print(i)
10
9
8
7
6
5
4
3
2
1
In [40]:
 1
    for i in range(10,0,-2):
 2
        print(i)
10
8
6
4
2
In [41]:
 1
    for i in range(9,0,-2):
 2
        print(i)
5
3
1
```

```
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In [43]:
  1 i += 2
  2 print(i)
4
In [44]:
 1 fruits = ["apple", "grapes", "lemon", "orange"]
    for j in fruits:
         print(j)
 3
 4
apple
grapes
lemon
orange
In [45]:
    list = [1,5,7,9,3,8]
 2
    for j in list:
 3
         print(j)
1
5
7
9
3
8
```

```
In [ ]:
```

1