

Range Function

```
In [2]: 1 L1 = [1,2,3,4,5,6,7,8,9,10]
        2 print("Using List :", L1)
        3
        4 L2 = list(range(1,11))
        5 print("Using Range Function :", L1)
```

Using List : [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
Using Range Function : [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

```
In [3]: 1 L3 = list(range(15)) #range(start,end,steps)
        2
        3 L3
```

Out[3]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14]

```
In [4]: 1 L4 = list(range(100,110))
        2 L4
```

Out[4]: [100, 101, 102, 103, 104, 105, 106, 107, 108, 109]

```
In [5]: 1 L5 = list(range(1,20,3))
        2 L5
```

Out[5]: [1, 4, 7, 10, 13, 16, 19]

```
In [6]: 1 L6 = list(range(10,50,5))
        2 L6
```

Out[6]: [10, 15, 20, 25, 30, 35, 40, 45]

For loop

```
In [7]: 1 """
        2 in c or java
        3
        4 for(int i=1; i<=5;i++)
        5 """
        6
        7 for i in range(1,6):
        8     print("Hello Everyone")
```

Hello Everyone
Hello Everyone
Hello Everyone
Hello Everyone
Hello Everyone

```
In [8]: 1 for i in range(1,11):  
        2     print(i)
```

```
1  
2  
3  
4  
5  
6  
7  
8  
9  
10
```

```
In [9]: 1 #Table of 2 using for loop  
        2  
        3 for i in range(1,11):  
        4     print(i*2)
```

```
2  
4  
6  
8  
10  
12  
14  
16  
18  
20
```

```
In [10]: 1 #Ask user for input and print table for user input  
         2  
         3 num = int(input("Enter the number: "))  
         4  
         5 for i in range(1,11):  
         6     print(i*num)
```

```
Enter the number: 9  
9  
18  
27  
36  
45  
54  
63  
72  
81  
90
```

```
In [11]: 1 name = ["Ajay","Vishal","Govind","Ankita","Raj"]
          2 print(name)
          3
          4 for i in name:
          5     print("Hello", i)
```

```
['Ajay', 'Vishal', 'Govind', 'Ankita', 'Raj']
Hello Ajay
Hello Vishal
Hello Govind
Hello Ankita
Hello Raj
```

```
In [14]: 1 name = ["Ajay","Vishal","Govind","Ankita","Raj"]
          2 i = 0
          3 while i <= 4:
          4     print("Hey", name[i])
          5     i += 1
```

```
Hey Ajay
Hey Vishal
Hey Govind
Hey Ankita
Hey Raj
```

```
In [15]: 1 #Nested for Loop
          2
          3 for i in range(1,4):
          4     for j in range(1,4):
          5         print("*",end = " ")
          6
          7     print()
```

```
* * *
* * *
* * *
```

```
In [59]: 1 """
          2 1 2 3
          3 1 2 3
          4 1 2 3
          5 """
          6
          7 for i in range(3):
          8     a = 1
          9     for j in range(3):
         10         print(a,end=" ")
         11         a+=1
         12     print()
```

```
1 2 3
1 2 3
1 2 3
```

In [63]:

```

1  """
2  1 1 1
3  2 2 2
4  3 3 3
5  """
6
7  for i in range(3):
8      for j in range(3):
9          print(i+1,end=" ")
10         print()
11
12

```

```

1 1 1
2 2 2
3 3 3

```

In [52]:

```

1  """
2  *
3  * *
4  * * *
5  """
6
7  for i in range(3):
8      for j in range(i+1):
9          print("*", end = " ")
10         print()

```

```

*
* *
* * *

```

In [72]:

```

1  """
2  1
3  1 2
4  1 2 3
5  """
6  for i in range(3):
7      a = 1
8      for j in range(i+1):
9          print(a,end=" ")
10         a = a+1
11         print()

```

```

1
1 2
1 2 3

```

In [77]:

```
1  """
2  1
3  2 2
4  3 3 3
5  """
6
7  for i in range(3):
8      for j in range(i+1):
9          print(i+1,end=" ")
10     print()
```

```
1
2 2
3 3 3
```

In []:

```
1
```