

range()

```
In [2]: r=range(0,10)
r
```

```
Out[2]: range(0, 10)
```

```
In [3]: type(r)
```

```
Out[3]: range
```

print the range

```
In [4]: list(range(0,10))
```

```
Out[4]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```

```
In [5]: list(range(10,20))
```

```
Out[5]: [10, 11, 12, 13, 14, 15, 16, 17, 18, 19]
```

```
In [6]: range(10)
```

```
Out[6]: range(0, 10)
```

```
In [7]: list(range(10))
```

```
Out[7]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```

```
In [8]: r=range(10)
```

```
In [9]: for i in r:
        print(i)
```

```
0
1
2
3
4
5
6
7
8
9
```

```
In [10]: list(range(10,50,5))
```

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

print even numbers between 0 to 20

```
In [11]: list(range(2,20,2))
```

```
Out[11]: [2, 4, 6, 8, 10, 12, 14, 16, 18]
```

print odd numbers from 1 to 20

```
In [13]: list(range(1,20,2))
```

```
Out[13]: [1, 3, 5, 7, 9, 11, 13, 15, 17, 19]
```

backward counting

```
In [14]: list(range(10,0,-2))
```

```
Out[14]: [10, 8, 6, 4, 2]
```

print numbers from 50 to 30 in reverse order

```
In [15]: list(range(50,29,-1))
```

```
Out[15]: [50,  
          49,  
          48,  
          47,  
          46,  
          45,  
          44,  
          43,  
          42,  
          41,  
          40,  
          39,  
          38,  
          37,  
          36,  
          35,  
          34,  
          33,  
          32,  
          31,  
          30]
```

print multiplication table of 5 using range()

```
In [16]: list(range(5,51,5))
```

```
Out[16]: [5, 10, 15, 20, 25, 30, 35, 40, 45, 50]
```

print all numbers from 1 to 100 divisible by both 3 and 5

```
In [17]: for i in range(1,100):  
         if(i%3==0 and i%5==0):  
             print(i)
```

15
30
45
60
75
90

print the square numbers from 1 to 10

```
In [21]: for i in range(1,11):  
         print(i*i)
```

1
4
9
16
25
36
49
64
81
100

count how many times the loop runs for range(1,30,3)

```
In [27]: count=0  
         for i in range(1,30,3):  
             count=count+1  
         print('count is : ',count)
```

count is : 10

```
In [ ]:
```