

Assignment 6

Range

```
In [2]: range(5)
```

```
Out[2]: range(0, 5)
```

```
In [3]: list(range(0,5))
```

```
Out[3]: [0, 1, 2, 3, 4]
```

```
In [4]: list(range(10,25))
```

```
Out[4]: [10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24]
```

```
In [5]: list(range(0,56,5))
```

```
Out[5]: [0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55]
```

```
In [6]: list(range(0,56,5,3)) #TypeError: range expected at most 3 arguments, got 4
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[6], line 1  
----> 1 list(range(0,56,5,3))  
  
TypeError: range expected at most 3 arguments, got 4
```

```
In [11]: r= range(0,11,3)  
         r
```

```
Out[11]: range(0, 11, 3)
```

```
In [12]: for i in r:  
         print(i)
```

```
0  
3  
6  
9
```

```
In [13]: list(r)
```

```
Out[13]: [0, 3, 6, 9]
```

Advance slicing

```
In [15]: l=["a", "b", "c", 1, 2.54, 23, True, 2+12j]  
         l
```

```
Out[15]: ['a', 'b', 'c', 1, 2.54, 23, True, (2+12j)]
```

```
In [16]: l[3:]
```

```
Out[16]: [1, 2.54, 23, True, (2+12j)]
```

```
In [17]: l[-5:]
```

```
Out[17]: [1, 2.54, 23, True, (2+12j)]
```

```
In [18]: l[3]
```

```
Out[18]: 1
```

```
In [19]: l[-5]
```

```
Out[19]: 1
```

```
In [20]: l[2:9]
```

```
Out[20]: ['c', 1, 2.54, 23, True, (2+12j)]
```

```
In [21]: l[2:7]
```

```
Out[21]: ['c', 1, 2.54, 23, True]
```

```
In [22]: l[2:7]
```

```
Out[22]: ['c', 1, 2.54, 23, True]
```

```
In [23]: l[2:7:2]
```

```
Out[23]: ['c', 2.54, True]
```

```
In [24]: l[0:7:5]
```

```
Out[24]: ['a', 23]
```

```
In [25]: l
```

```
Out[25]: ['a', 'b', 'c', 1, 2.54, 23, True, (2+12j)]
```

```
In [26]: l[-5:-3]
```

```
Out[26]: [1, 2.54]
```

```
In [27]: s=["sbi","icici","hdcf","central","union","canara","citybank"]
```

```
In [28]: len(s)
```

```
Out[28]: 7
```

```
In [29]: s[6]
```

```
Out[29]: 'citybank'
```

```
In [32]: for i in enumerate(s):  
         print(i)
```

```
(0, 'sbi')  
(1, 'icici')  
(2, 'hdcf')  
(3, 'central')  
(4, 'union')  
(5, 'canara')  
(6, 'citybank')
```

```
In [33]: s[-1]
```

```
Out[33]: 'citybank'
```

```
In [34]: s[-7:-1]
```

```
Out[34]: ['sbi', 'icici', 'hdcf', 'central', 'union', 'canara']
```

```
In [35]: s[:]
```

```
Out[35]: ['sbi', 'icici', 'hdcf', 'central', 'union', 'canara', 'citybank']
```

```
In [36]: s[::-1] # print range in reverse
```

```
Out[36]: ['citybank', 'canara', 'union', 'central', 'hdcf', 'icici', 'sbi']
```

```
In [37]: s[::-2]
```

```
Out[37]: ['citybank', 'union', 'hdcf', 'sbi']
```

```
In [38]: s[::-5]
```

```
Out[38]: ['citybank', 'icici']
```

```
In [ ]:
```