

# Range

```
In [1]: r=range(2)
r
```

```
Out[1]: range(0, 2)
```

```
In [2]: r1=range(12)
r1
```

```
Out[2]: range(0, 12)
```

```
In [3]: range(10,30)
```

```
Out[3]: range(10, 30)
```

```
In [5]: r2=list(range(12))
r2
```

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

```
In [6]: r_=list(range(4))
r_
```

```
Out[6]: [0, 1, 2, 3]
```

```
In [7]: list(range(2,10))
```

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

```
In [8]: list(range(10,100,20))
```

```
Out[8]: [10, 30, 50, 70, 90]
```

```
In [12]: list(range(40,200,10))
```

```
Out[12]: [40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190]
```

```
In [13]: list(range(10,30,5,3))
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[13], line 1
----> 1 list(range(10,30,5,3))

TypeError: range expected at most 3 arguments, got 4
```

```
In [14]: r=range(10)
r
```

```
Out[14]: range(0, 10)
```

```
In [15]: type(r)
```

Out[15]: range

```
In [16]: list(r)
```

Out[16]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

```
In [17]: for i in r:
          print('yes')
          print(i)
```

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

```
In [18]: r
```

Out[18]: range(0, 10)

```
In [19]: range(10.0,22.5)
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[19], line 1
----> 1 range(10.0,22.5)

TypeError: 'float' object cannot be interpreted as an integer
```

```
In [20]: w=range(10,30)
          w
```

Out[20]: range(10, 30)

```
In [22]: for i in w:
          print(i)
```

10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29

In [23]: `r`

Out[23]: `range(0, 10)`

In [24]: `r[4]`

Out[24]: `4`

In [25]: `r[0]`

Out[25]: `0`

In [26]: `r[6]`

Out[26]: `6`

In [27]: `r[0:3]`

Out[27]: `range(0, 3)`

In [28]: `range(100)`

Out[28]: `range(0, 100)`

In [29]: `range(10,30)`

Out[29]: `range(10, 30)`

In [30]: `range(3)`

Out[30]: `range(0, 3)`

In [31]: `range(10,30)`

Out[31]: `range(10, 30)`

```
In [33]: range(10,30,4)
```

```
Out[33]: range(10, 30, 4)
```

```
In [34]: range(3,23,5,10)
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[34], line 1  
----> 1 range(3,23,5,10)  
  
TypeError: range expected at most 3 arguments, got 4
```

```
In [35]: range(10,30,20.34)
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[35], line 1  
----> 1 range(10,30,20.34)  
  
TypeError: 'float' object cannot be interpreted as an integer
```

```
In [37]: for i in range(20):  
         print(i)
```

```
0  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19
```

```
In [38]: for i in range(20,30):  
         print(i)
```

```
20  
21  
22  
23  
24  
25  
26  
27  
28  
29
```

```
In [39]: for i in range(10,50,8):  
         print(i)
```

```
10  
18  
26  
34  
42
```

```
In [40]: for i in range(10,30,5,2):  
         print(i)
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[40], line 1  
----> 1 for i in range(10,30,5,2):  
      2     print(i)  
  
TypeError: range expected at most 3 arguments, got 4
```

```
In [ ]:
```