

Python



Python range() Function

Python **range()** function returns an immutable sequence of numbers starting from 0, increments by 1 and ends at a specified number.

Signature

```
range(start, stop, step)
```

Parameters

start (optional) : It is an integer number that specifies the starting position. The Default value is 0.

stop (optional) : It is an integer that specifies the ending position.

step (optional) : It is an integer that specifies the increment of a number. The Default value is 1.

Return

It returns an immutable sequence of numbers starting from 0, increments by 1, and ends at a specified number.

The below example shows the working of range().

```
# empty range
```

```
print(list(range(0)))
```

```
# using the range(stop)
```

```
print(list(range(4)))
```

```
# using the range(start, stop)
```

```
print(list(range(1,7 )))
```

Output :

```
[]
```

```
[0, 1, 2, 3]
```

```
[1, 2, 3, 4, 5, 6]
```

The below example creates a list of number between the given numbers using range() function.

```
start = 5  
stop = 12  
step = 4  
  
print(list(range(start, stop, step)))
```

Output :

```
[5, 9]
```