

# Python For Loop Range

## Python For Loop Range

In this tutorial, we will learn how to use `range()` function with [Python For Loop](#).

`range` object is an iterable with sequence of integers. And for loop can iterate over a range object.

Following is the syntax of for loop using `range()` function.

```
for index in <range> :  
    statement(s)
```

Following is the syntax of `range()` function.

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

`range()` function returns an object that generates a sequence of integers. These integers range from from start (inclusive) to stop (exclusive) with adjacent integers separated by step. `range(i, j)` produces `i, i+1, i+2, ..., j-1`. For example, `range(2, 20, 3)` means `2, 5, 8, 11, 14, 17`.

start has a default value of 0. And you can just provide stop as argument to `range()` function. So `range(4)` means a sequence of integers `0, 1, 2, 3`.

### Example 1 – Python For Loop Range

In this example, we will use `range()` function, to iterate over integers from 0 to 8.

#### Python Program

```
for i in range(9) :  
    print(i)
```

#### Output

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

### Example 2 – Python For Loop with Range having a Different Start

In this example, we will use range() function, to iterate over integers from 4 to 8.

### Python Program

```
for i in range(4, 9) :  
    print(i)
```

### Output

```
4  
5  
6  
7  
8
```

## Example 3 – Python For Loop with Range having a Different Steps

In this example, we will use range() function, to iterate over integers from 2 up to 20 in steps of 3.

### Python Program

```
for i in range(2, 20, 3) :  
    print(i)
```

### Output

```
2  
5  
8  
11  
14  
17
```

## Conclusion

Concluding this [Python Tutorial](#), we learned how to use Python For Loop with a Range object.

## Python Programming

‡ [Python Tutorial](#)

‡ [Install Python](#)

‡ [Install Anaconda Python](#)

‡ [Python HelloWorld Program](#)

‡ [Python Variables](#)

‡ [Python Variable Data Type Conversion](#)

‡ [Python Comments](#)

## Control Statements

‡ [Python If](#)

‡ [Python If Else](#)

‡ [Python While Loop](#)

‡ [Python For Loop](#)

## Python String

‡ [Python String Methods](#)

‡ [Python String Length](#)

‡ [Python String Replace](#)

‡ [Python Split String](#)

‡ [Python Count Occurrences of Sub-String](#)

‡ [Python Sort List of Strings](#)

## Functions

‡ [Python Functions](#)

## Python Collections

‡ [Python List](#)

‡ [Python Dictionary](#)

## Advanced

‡ [Python Multithreading](#)

## Useful Resources

‡ [Python Interview Questions](#)