

# Day -3

## For Loop in Python

### For Loop Syntax:

```
for iterator_var in sequence:  
    statements(s)
```

It can be used to iterate over a range and iterators.

The code uses a Python for loop that iterates over the values from 0 to 3 (not including 4), as specified by the `range(0, n)` construct. It will print the values of 'i' in each iteration of the loop.

### code

```
print("List Iteration")  
l = ["geeks", "for", "geeks"]  
for i in l:  
    print(i)  
print("\nTuple Iteration")  
t = ("geeks", "for", "geeks")  
for i in t:  
    print(i)  
print("\nString Iteration")  
s = "Geeks"  
for i in s:  
    print(i)  
print("\nDictionary Iteration")  
d = dict()  
d['xyz'] = 123  
d['abc'] = 345  
for i in d:  
    print("%s %d" % (i, d[i]))  
print("\nSet Iteration")  
set1 = {1, 2, 3, 4, 5, 6}  
for i in set1:  
    print(i),
```

### output

List Iteration

geeks

```
for  
geeks
```

Tuple Iteration

```
geeks  
for  
geeks
```

String Iteration

```
G  
e  
e  
k
```

Dictionary Iteration

```
xyz 123  
abc 345
```

Set Iteration

```
1  
2  
3  
4  
5  
6
```

## While Loop in Python

**while**

```
i = 0  
a = 'geeksforgeeks'  
  
while i < len(a):
```

```
if a[i] == 'e' or a[i] == 's':  
    i += 1  
    continue  
  
print('Current Letter :', a[i])  
i += 1
```

### Output

Current Letter : g  
Current Letter : k  
Current Letter : f  
Current Letter : o  
Current Letter : r  
Current Letter : g  
Current Letter : k

### Loop Syntax:

```
while expression:  
    statement(s)
```