

# *For Loop Method*

## 1) Range

1.....

```
for i in range(5):  
    print(i)
```

## Output

```
0  
1  
2  
3  
4
```

2.....

```
for i in range(5):  
    i=i  
print(i)
```

OR

```
a=""  
for i in range(5):  
    a=i  
print(a)
```

## Output

```
4
```

3.....

```
for i in range(5,0,-1):  
    print(i)
```

## Output

```
5  
4  
3  
2  
1
```

4.....

```
a=""  
for i in range(5):  
    a = a + str(i)      # a += str(i)  
print(a)
```

Output

```
01234
```

2) String

1.....

```
s="cow"  
for i in s:  
    print(i)
```

Output

```
c  
o  
w
```

2.....

```
s="cow"  
r=""  
for i in s:  
    r=i+r  
for j in r:  
    print(j)
```

Output

```
w  
o  
c
```

3.....

```
s="cow"
r=""
for i in s:
    r = r + i      # r += i
print(r)
```

Output

```
cow
```

4.....

```
s="cow"
r=""
for i in s:
    r = i + r
print(r)
```

Output

```
woc
```

### 3) List Same as Tuple( )

1.....

```
l=[1,2,3]
for i in l:
    print(i)
```

Output

```
1
2
3
```

## 2.....( Count index Value )

```
l=[1,2,3]
for i in range(len(l)):
    print(i)
```

## Output

```
0
1
2
```

## 3.....

```
l=[1,5,7,10]
for i in range(len(l)):
    print(l[2])
```

## Output

```
7
7
7
7
```

## 4.....

```
l=[1,2,3]
l.reverse()
for i in l:
    print(i)
```

## Output

```
3
2
1
```

## 4) Set

1.....

```
se={1,2,3}
for i in se:
    print(i)
print(se)
```

Output

```
1
2
3
{1, 2, 3}
```

## 5) Dictionary

1.....( Dict. Key)

```
d={"a":1,"b":2,"c":3}
for i in d :
    print(i)
```

Output

```
a
b
c
```

2.....( Dict. Value)

```
d={"a":1,"b":2,"c":3}
for i in d :
    print(d[i])
```

Output

```
1
2
3
```

### 3.....( Dict. Key and Dict. Value )

```
d={"a":1,"b":2,"c":3}
for i in d :
    print(i)
for j in d:
    print(d[j])
```

### Output

```
a
b
c
1
2
3
```

### 4.....

```
d={"a":1,"b":2,"c":3}
for i in d :
    print(d)
```

### Output

```
{'a': 1, 'b': 2, 'c': 3}
{'a': 1, 'b': 2, 'c': 3}
{'a': 1, 'b': 2, 'c': 3}
```

### 5.....

```
d={"a":1,"b":2,"c":3}
for i in d :
    d.update({i:d[i]})
```

### Output

```
{'a': 1, 'b': 2, 'c': 3}
```

## 6) Nested for loop

1.....

```
for i in range(3) :  
    for j in range(3) :  
        print(i,j)  
    print()
```

Output

```
0 0
```

```
0 1
```

```
0 2
```

```
1 0
```

```
1 1
```

```
1 2
```

```
2 0
```

```
2 1
```

```
2 2
```