

loop in python

for loop

loop in python

1-for loop

2-while loop

✓ for loop

```
for i in range(10):  
    print(i)
```

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

```
for i in range(1,11):  
    print(i)
```

```
1  
2  
3  
4  
5  
6  
7  
8  
9  
10
```

```
for i in range(2,21):  
    print(i)
```

```
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20
```

```
for i in range(1,11):  
    print(i,"souvik")
```

```
1 souvik  
2 souvik  
3 souvik  
4 souvik  
5 souvik  
6 souvik  
7 souvik  
8 souvik  
9 souvik  
10 souvik
```

```
for i in range(11,0,-1):  
    print(i)
```

```
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1
```

```
for i in range(20,10, -1):  
    print(i)
```

```
20  
19  
18  
17  
16  
15  
14  
13  
12  
11
```

```
for i in range(1,11,6):  
    print(i)
```

```
1  
7
```

```
for i in range(1,31):  
    print(i)
```

```
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30
```

```
for i in range(1,31,5):  
    print(i)
```

```
1  
6  
11  
16  
21  
26
```

```
for i in "souvik":  
    print(i)
```

```
s  
o  
u  
v  
i  
k
```

```
for i in [1,2,3,4,5]:  
    print(i)
```

```
1  
2  
3  
4  
5
```

```
for i in (1,2,3,4,5):  
    print(i)
```

```
1  
2  
3  
4  
5
```

✓ nested loop

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

```
1 1  
1 2  
1 3  
1 4
```

```
2 1
2 2
2 3
2 4
3 1
3 2
3 3
3 4
4 1
4 2
4 3
4 4
```

✓ loop control statement

```
for i in range(1,11):#break statement
    print(i)
    if(i==5):
        break
```

```
1
2
3
4
5
```

```
for i in range(1,11):#continue
    if i==5:
        continue
    print(i)
```

```
1
2
3
4
6
7
8
9
10
```

```
for i in range(1,11):#pass
    pass
print("ok")
```

```
ok
```

✓ while loop

```
i=0
while(i<10):
    print(i)
    i+=1
```

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

```
#program to print multiplication table
number= int(input("enter the number"))
i=1
while(i<=11):
    print(number,"x",i, "=", number * i)
    i+=1
```

```
enter the number5
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50
5 x 11 = 55
```

