

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
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
```

