

Python Loops

Loops execute a block of code and this code executes while the condition is true. In this lesson, we will learn about Python Loops such as while loop, for loop, etc.

while loop in Python

In while loop, the block of code executes only when the condition is true. It executes as long as the condition is true.

Syntax

Here's the syntax:

```
while (condition is true):  
    code
```

Example

The following is an example showing the usage of *while loop* in Python,

```
a = 0  
print ('Studyopedia: Never Stop Learning')  
#while loop  
while (a < 3):  
    print ('Value = ', a)  
    a = a + 1
```

Output

The following is the output,

```
D:\MyPython>python studyopedia.py  
Studyopedia: Never Stop Learning
```



```
Studyopedia: Never Stop Learning
```

```
Value = 0
```

```
Value = 1
```

```
Value = 2
```

for loop in Python

The **for loop** in Python is used when you can set how many times a statement is to be executed.

Syntax

Here's the syntax,

```
for var in sequence:  
    code
```

Example

The following is an example showing the usage of *for loop* in Python,

```
print ('Studyopedia: Never Stop Learning')  
#for loop  
for w in 'Kevin':  
    print ('Words in my name = ', w)
```

Output

The following is the output,

```
D:\MyPython>python studyopedia.py  
Studyopedia: Never Stop Learning  
Words in my name = K  
Words in my name = e  
Words in my name = v  
Words in my name = i  
Words in my name = n
```

In this lesson we learned about the types of loops in Python.

