

## Tutorial: Python Loops

Loops are used in Python to execute a block of code repeatedly. There are two main types of loops in Python: while and for loops.

### Videos

- Intro Python - While Loops - <https://youtu.be/UQn0cKvoFa8?si=qoDHxMmtRQhf6C2j>
- Intro Python - For Loops - <https://youtu.be/3SpUh0rM3Dg?si=QuDeaTfslgCsAu5A>
- Intro Python-Break and Continue - <https://youtu.be/HHRptxusJq0?si=10FuPYAkV6A0ciwX>
- Intro Python - Nested Control Structures - <https://youtu.be/ld6xvFgOKdo?si=8W53PLEasomnSlub>

### While Loop

A while loop repeats a block of code as long as a specified condition is true.

```
count = 0
while count < 5:
    print("Count is:", count)
    count += 1
```

#### Output:

```
Count is: 0
Count is: 1
Count is: 2
Count is: 3
Count is: 4
```

### For Loop

A for loop iterates over a sequence (such as a list, tuple, string, or range) and executes the block of code for each item in the sequence.

```
fruits = ["apple", "banana", "cherry"]
for fruit
in fruits:
    print("I love", fruit)
```

#### Output:

```
I love apple
I love banana
I love cherry
```

## **Additional Tutorials**

For more practice, use the online interactive tutorials list here.

- While Loops - [https://www.w3schools.com/python/python\\_while\\_loops.asp](https://www.w3schools.com/python/python_while_loops.asp)
- For Loops - [https://www.w3schools.com/python/python\\_for\\_loops.asp](https://www.w3schools.com/python/python_for_loops.asp)

