

 hello\_world.py

# Python Programming with Algorithmic Approach Course

Teacher



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Code is poetry written  
for machines!

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# Loops

Python has two primitive loop commands:

- **while** loops
- **for** loops



# For Loop

A for loop is used for iterating over a sequence (that is either a list, a tuple, a dictionary, a set, or a string).

This is less like the for keyword in other programming languages, and works more like an iterator method as found in other object-orientated programming languages.

With the for loop we can execute a set of statements, once for each item in a list, tuple, set etc.

Syntax:

```
for x in my_list:  
    # Code
```

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

# range Function

To loop through a set of code a specified number of times, we can use the range() function, The range() function returns a sequence of numbers, starting from 0 by default, and increments by 1 (by default), and ends at a specified number.

Syntax:

```
for x in my_list:  
    # Code
```

```
range(start, end, step)
```



## References

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[https://www.w3schools.com/python/python\\_while\\_loops.asp](https://www.w3schools.com/python/python_while_loops.asp)

[https://www.w3schools.com/python/python\\_for\\_loops.asp](https://www.w3schools.com/python/python_for_loops.asp)

# THANKS!

Do you have any questions?



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