

PYTHON SYNTAX

Execute Python Syntax

```
>>> print("Hello, World!")
```

Hello, World!

Or by creating a python file on the server, using the .py file extension, and running it in the Command Line:

```
C:\Users\Your Name>python myfile.py
```

Python Indentation

Indentation refers to the spaces at the beginning of a code line.

Where in other programming languages the indentation in code is for readability only, the indentation in Python is very important.

Python uses indentation to indicate a block of code.

ExampleGet your own Python Server

```
if 5 > 2:
```

```
    print("Five is greater than two!")
```

Python will give you an error if you skip the indentation:

ExampleGet your own Python Server

Syntax Error:

```
if 5 > 2:
```

```
    print("Five is greater than two!")
```

The number of spaces is up to you as a programmer, the most common use is four, but it has to be at least one.

ExampleGet your own Python Server

```
if 5 > 2:
```

```
    print("Five is greater than two!")
```

```
if 5 > 2:
```

```
    print("Five is greater than two!")
```

You have to use the same number of spaces in the same block of code, otherwise Python will give you an error:

ExampleGet your own Python Server

Syntax Error:

```
if 5 > 2:
```

```
    print("Five is greater than two!")
```

```
    print("Five is greater than two!")
```

Python Variables

In Python, variables are created when you assign a value to it:

ExampleGet your own Python Server

Variables in Python:

```
x = 5
```

```
y = "Hello, World!"
```

Python has no command for declaring a variable.

You will learn more about variables in the Python Variables chapter.

Comments

Python has commenting capability for the purpose of in-code documentation.

Comments start with a #, and Python will render the rest of the line as a comment:

ExampleGet your own Python Server

Comments in Python:

```
#This is a comment.
```

```
print("Hello, World!")
```

Python Comments

Comments can be used to explain Python code.

Comments can be used to make the code more readable.

Comments can be used to prevent execution when testing code.

Creating a Comment

Comments starts with a #, and Python will ignore them:

ExampleGet your own Python Server

```
#This is a comment
```

```
print("Hello, World!")
```

Comments can be placed at the end of a line, and Python will ignore the rest of the line:

ExampleGet your own Python Server

```
print("Hello, World!") #This is a comment
```

A comment does not have to be text that explains the code, it can also be used to prevent Python from executing code:

ExampleGet your own Python Server

```
#print("Hello, World!")
```

```
print("Cheers, Mate!")
```

Multiline Comments

Python does not really have a syntax for multiline comments.

To add a multiline comment you could insert a # for each line:

ExampleGet your own Python Server

```
#This is a comment
```

```
#written in
```

#more than just one line

```
print("Hello, World!")
```

Or, not quite as intended, you can use a multiline string.

Since Python will ignore string literals that are not assigned to a variable, you can add a multiline string (triple quotes) in your code, and place your comment inside it:

ExampleGet your own Python Server

```
"""
```

This is a comment

written in

more than just one line

```
"""
```

```
print("Hello, World!")
```

As long as the string is not assigned to a variable, Python will read the code, but then ignore it, and you have made a multiline comment.

KEYWORDS:

```
>>> help("keywords")
```

Here is a list of the Python keywords. Enter any keyword to get more help.

False	class	from	or
None	continue	global	pass
True	def	if	raise

and	del	import	return
as	elif	in	try
assert	else	is	while
async	except	lambda	with
await	finally	nonlocal	yield
break	for	not	