

Hello World in Python

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

Python Comments

Example 1

```
#This is a comment
```

Example 2

```
#This is a comment
#written in
#more than just one line
```

Example 3

```
""" This is a comment
written in
more than just one line """
```

Python Variables

```
x = "How old are you ?" #x is of type str
print(x)
>>> How old are you ?
x = 25 #x now is of type int
print(x)
>>> 25
```

Python Data Types

Text Type:	str
Numeric Types:	int, float, complex
Sequence Types:	list, tuple, range
Mapping Type:	dict
Set Types:	set, frozenset
Boolean Type:	bool
Binary Types:	bytes, bytearray, memoryview

Get the data type of a variable "var"

```
type(var)
```

Python Data Types Examples

Example	Data Type
x = "Color"	list
x = 1	int
x = 1.2	float
x = 2j	complex
x = ["Blue", "Red", "Yellow"]	list
x = ("Blue", "Red", "Yellow")	tuple
x = range(8)	range
x={"Age":25, "Height":1.72}	dict
x = {"Pink", "Red"}	set
x = frozenset({"Pink", "Red"})	frozenset
x = True	bool
x = b"Color"	bytes
x = bytearray(8)	bytearray
x = memoryview(bytes(8))	memoryview
Get the data type of x :	memoryview

```
x = "Color"
print(type(x))
>>> str
```

Python Casting

Casting is used to specify a type on to a variable and this is done using constructor functions.

Examples

```
x = int(5)      #x = 5
x = int(2.8)    #x = 2
x = float(5)    #x = 5.0
x = float(2.8) #x = 2.8
```



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 Page 1 of 1.

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