

Variables in Python

- Variables are used to store information to be referenced and manipulated in a computer program. They also provide a way of labeling data with a descriptive name, so our programs can be understood more clearly by the reader and ourselves.
- It is helpful to think of variables as containers that hold information.
- Their sole purpose is to label and store data in memory.
- This data can then be used throughout our program.
- As Python is Dynamically typed language there is no need to use data types explicitly while creating the variable.
- Depends on the value that we initialise interpreter decides its data type and allocates memory accordingly.

Consider below application which demonstrates different ways in which we can create variables.

```
print("---- Marvellous Infosystems by Piyush Khairnar----")  
  
print("Demonstration of Variables in Python")  
  
no = 11 # Considered as integer  
  
name = "Marvellous Infosystems" # Considered as String  
  
fvalue = 3.14 # Considered as float  
  
cvalue = 10 + 5j # considered as Complex number  
  
evalue = 7E4 # considered as scientific number where E  
indicates power of 10  
  
bigvalue = 12345678912  
  
print(no)  
  
print("String is " + name)  
  
print(fvalue)  
  
print(cvalue)  
  
print(evalue)  
  
print(bigvalue)  
  
# We can use type function to get data type of variable  
print(type(no))  
  
print(type(name))
```

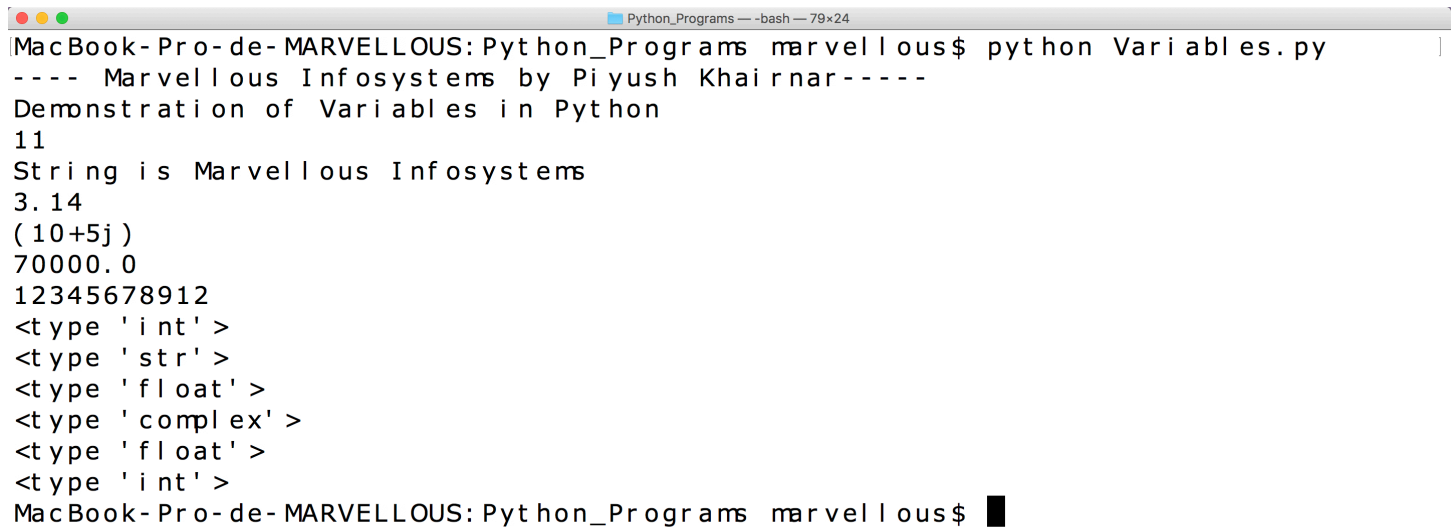
```
print(type(fvalue))
```

```
print(type(cvalue))
```

```
print(type(evalue))
```

```
print(type(bigvalue))
```

Output of Above application



```
MacBook-Pro-de-MARVELLOUS: Python_Programs marvellous$ python Variables.py
---- Marvellous Infosystems by Piyush Khairnar ----
Demonstration of Variables in Python
11
String is Marvellous Infosystems
3.14
(10+5j)
70000.0
12345678912
<type 'int'>
<type 'str'>
<type 'float'>
<type 'complex'>
<type 'float'>
<type 'int'>
MacBook-Pro-de-MARVELLOUS: Python_Programs marvellous$
```