
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("----Hello world from Mr.Ranjit Kumbhar Sir-----")
```

```
print("Demonstration of Variables in Python")
```

```
no = 11                                # Considered as integer
```

```
name = "Shree Ganesha"                # Considered as String
```

```
fvalue = 3.14                          # Considered as float
```

```
cvalue = 10 + 5j                       #considered as Complex number
```

```
evaluate = 7E4                          # considered as scientific number where E  
indicates power of 10
```

```
bigvalue = 12345678912
```

```
print(no)
```

```
print("String is " + name)
```

```
print(fvalue)
```

```
print(cvalue)
```

```
print(evaluate)
```

```
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