4. VARIABLE TYPES

Variables are nothing but reserved memory locations to store values. This means when you create a variable, you reserve some space in memory.

Based on the data type of a variable, the interpreter allocates memory and decides what can be stored in the reserved memory. Therefore, by assigning different data types to variables, you can store integers, decimals, or characters in these variables.

Assigning Values to Variables

Python variables do not need explicit declaration to reserve memory space. The declaration happens automatically when you assign a value to a variable. The equal sign (=) is used to assign values to variables.

The operand to the left of the = operator is the name of the variable and the operand to the right of the = operator is the value stored in the variable. For example:

```
#!/usr/bin/python

counter = 100  # An integer assignment

miles = 1000.0  # A floating point

name = "John"  # A string

print counter

print miles
print name
```

Here, 100, 1000.0, and "John" are the values assigned to *counter*, *miles*, and *name* variables respectively. This produces the following result:

```
100
1000.0
John
```

