**Python** **Variables**

* **Python Variables**
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* **Python** **Variables**
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* Assign Multiple Values
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* **Output Variables**
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* Global Variables
* The global Keyword
* Python has no command for declaring a variable.
* A variable is created the moment you first assign a value to it.
* Variables do not need to be declared with any particular type, and can even change type after they have been set.
* If you want to specify the data type of a variable, this can be done with casting.
* You can get the data type of a variable with the type() function.
* String variables can be declared either by using single or double quotes.
* Variable names are case-sensitive.
* A variable can have a short name (like x and y) or a more descriptive name (age, car name, total volume).
* Rules for Python variables:
* A variable name must start with a letter or the underscore character.
* A variable name cannot start with a number.
* A variable name can only contain alpha-numeric characters and underscores (A-z, 0-9, and).
* Variable names are case-sensitive (age, Age and AGE are three different variables).
* variable names are case-sensitive.
* Variable names with more than one word can be difficult to read.
* There are several techniques you can use to make them more readable.
* Each word, except the first, starts with a capital letter.(Camel Case)
* Each word starts with a capital letter.(Pascal Case)
* Each word is separated by an underscore character.(Snake Case)
* Python allows you to assign values to multiple variables in one line.Make sure the number of variables matches the number of values, or else we will get an error.
* And you can assign the same value to multiple variables in one line.
* If you have a collection of values in a list, tuple etc. Python allows you to extract the values into variables. This is called unpacking.