Python: Variable Names

A variable can have a short name (like x and y) or a more descriptive name (age, carname, 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 Cage, Age and

AGIE are three different variables).

· A variable name cannot be any of the Bython keywords. Example: Legal variable names:

my var = "Kumar"

my_var = "Kumar"

_my_var = "Kumar"

myVar = "kumar"

MYVAR = "Kumar"

myvar2 = "Kumar"

Example: Incorrect variable names:

2myvan = " kumar"

my_var = "kumar"

my var = "kumar"

Multi Words Variable Names

Variable names with more than one word can be difficult to read.

There are several techniques you can use to make them more readable:

Camel Case

Each word, except the first, starts with a capital letter:
my Variable Name = "Kumar"

Pascal Case

Each word starts with a capital letter: My Variable Name = "kumar"

Snake Case

Each word is separated by an underscore character: my_variable_name = "kumar"

Many Values to Multiple Variables

Rython allows you to assign values to multiple variables in one line:

Example:

x, y, z = "Orange", "Banana", "Chenny"

Arint (x)

ANS: Orange

Arint (y)

Banana

Print (z) -

One Value to Multiple Variables And you can assign the same value to multiple variable in one line: Example:

X = Y = Z = "Orange"

Print (x)
Print (y)
Print (z)
Print (z)

Unpack a Collection

If you have a collection of values in a list, tuple etc. Bython allows you to extract the values into variables. This is called unpacking.

Example: Unpack a list:

fruits = ["apple", "banana", "cherry"]

X, Y, Z = fruits

Print(x) Print (x)

Print (y)

Print (z)

ANS: apple banana cherry

Output Variables

The Rython Print() function is often used to output Variables.

Example: x = " Python is awesome" Print (x) > ANS: Rython is awesome

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In the Print () function, you output multiple variables.
separated by a comma:
Example:
X = "Python"
y = "ig"
Z = "awesome"
Print (x, y, z) -> ANS: Python is awesome
You can also use the + operator to output multiple variables:
Example:
 X = "Python"
 Y = " is"
 Z = "awesome"
 Print (x+y+z) - ANS: Rython is a we some
For numbers, the + character works as a mathematical operator:
Example:
  y = 10
  Print(x+y) > ANS: 15
In the Print () function, when you try to combine a string and
a number with the + operator, Python will give you an error:
Example:
   X = 5
   y = "Kumar"
  Print (x+y) -> ANS: Type Error
```

The best way to output multiple variable in the Print () function is to separate them with commas, which even support different data types:

Example:

X = 5

y = "Kumar"

Print(x,y) -> ANS: 5 Kumar

Global Variables

Variables that are created outside of a function (as in all of the examples above) are known as global variables. Global variables can be used by everyone, both inside of functions and outside.

Example:

Create a variable outside of a function, and use it inside the function.

x = "awesome"

del mylunc ():

Print ("Rython is"+x)

myfunc()

ANS: Rython is awesome.