Python Programming

Practice – 5

Overview

This practice reinforces us to understand the need for creating modules in Python.

- *Creating and importing modules.*
- *Understand where Python searches for module files.*
- *Creation and usage of Python compiled files.*
- *Using partial components of a module.*
- *Peep through and get help for a module.*

We shall put these elements of modules in creating and using Python modules.

Hands On

1. Create a module by name UDF, such that it holds all the user defined functions (Refer Q1. and Q6 of the previous session)

   Write program which uses the UDF module and demonstrates the use of the user defined functions.

2. Create a module by name DefaultArgs, such that it holds all the user defined Functions which have default argument (Refer Q7. and Q8 of the previous session)

   Write program which uses the DefaultArgs module and demonstrates the use of the user defined functions with default arguments.

3. Create a module by name KeyArgs, such that it holds all the user defined Functions which have keyword argument mechanism (Refer Q9. and Q10 of the previous session)

   Write program which uses the KeyArgs module and demonstrates the use of the user defined functions with keyword arguments.

4. Create a module by name Recursion, such that it holds all the user defined Recursive Functions (Refer Q11. and Q14 of the previous session)

   Write program which uses the Recursion module and demonstrates the use of recursive functions.

   Give local name to the Recursion module function and execute them.

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5. Import the UDF module using the **from** statement

   [a] with specific user defined function
   [b] with all user-defined function using " * "

6. If the modules are not being identified, we need to set the module search path. Are your modules being executed if they are placed in a different directory, if no perform appropriate action such that they start working?

7. Using the standard module "sys" change the primary and second prompts of the Python environment.

8. Observe the different objects of the __builtins__ module.

9. Create a package, such that we are in a position to use all our function created in the previous session as follows:

   MyFunctions
   MyFunctions.UDF
   MyFunctions.DefaultArgs
   MyFunctions.KeyArgs
   MyFunctions.Recursion