**Python for System Administrators**

**Modules**:

As we know that python is more popular cause of its modules, we do have many modules for automating system administration tasks. The most commonly used modules are;

1. OS Module
2. Paramiko Module
3. Subprocess Module
4. Datetime Module
5. Time Module
6. Sys Module
7. Pipes Module

We will be looking at these modules and discuss what is the use of each module and where should we use them.

**Note:** If we just want to read the file we can use **open ()**, if we want to manipulate paths we can use the **os.path** module and if we want to read all the lines in all the files on the command line use **fileinput** module. For creating temporary files and directories see the **tempfile** module and for high-level file and directory handling see the **shutil** module

**OS Module**: This module provides the functions which are used to interact with the underlying operating system. Functions that are used.

**Note:** All functions in this module raise **OSError** in the case of invalid or inaccessible file names or paths, or other arguments that have the correct type, but are not accepted by the operating system.

A brief list of functions that OS module provide are listed below;