Secure Operating Systems – IE2032

Assignment 2

Objectives:

- Installing and getting familiarize with Python
- Using library functions to interact with System Kernel
- Using basic shell commands with additional parameters

Deliverables:

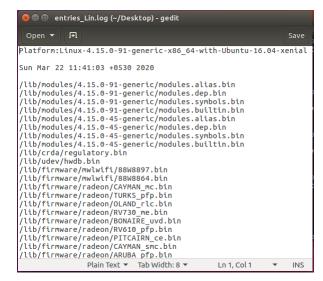
Create a platform independent single python script which can do the following tasks:

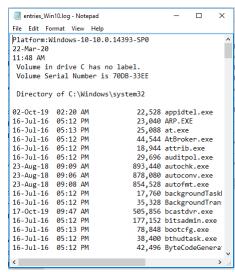
In **Linux** environment (Ubuntu):

- Platform name should be mentioned as the first line
- Second line should contain the current system date and time
- Generate a list of all the '.bin' files in directories and subdirectories inside the 'lib' folder and store them in a log file named 'entries_lin.log'.
- By the end of the procedures, 'entries_Lin.log' file should be available on the Desktop.

In **Windows** environment (Windows 10):

- Platform name should be mentioned as the first line
- Second line should contain system date
- Third line should contain system time
- Generate a list of all the '.exe' files available in 'C:\Windows\system32' directory and store them in a log file created in the C drive with the name of 'entries Win10.log'.





NOTE: Same python script should be able to operate on both environments. Refer lab sheets to get an insight on how to bridge the gap between terminal commands and a program.

HINT: You can use built-in python libraries 'os' and 'platform' (import os, import platform) You may need to execute some shell commands inside your python script.

Use [command] >> [file.type] command format to redirect output to a file.