

# Secure Coding Lab 4

Name : Rushik kumar Avula

Reg. No. : 18BCN7008

## Mid – Level :

```
Microsoft Windows [Version 10.0.19042.804]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\Rushik kumar Avula>pip install py2exe
Collecting py2exe
  Downloading py2exe-0.10.2.0-cp37-none-win_amd64.whl (141 kB)
    |#####| 141 kB 3.3 MB/s
Collecting pefile
  Downloading pefile-2019.4.18.tar.gz (62 kB)
    |#####| 62 kB 435 kB/s
Collecting cachetools
  Downloading cachetools-4.2.1-py3-none-any.whl (12 kB)
Collecting future
  Downloading future-0.18.2.tar.gz (829 kB)
    |#####| 829 kB 6.4 MB/s
Using legacy 'setup.py install' for pefile, since package 'wheel' is not installed.
Using legacy 'setup.py install' for future, since package 'wheel' is not installed.
Installing collected packages: future, pefile, cachetools, py2exe
  Running setup.py install for future ... done
  Running setup.py install for pefile ... done
Successfully installed cachetools-4.2.1 future-0.18.2 pefile-2019.4.18 py2exe-0.10.2.0

C:\Users\Rushik kumar Avula>cd Desktop/

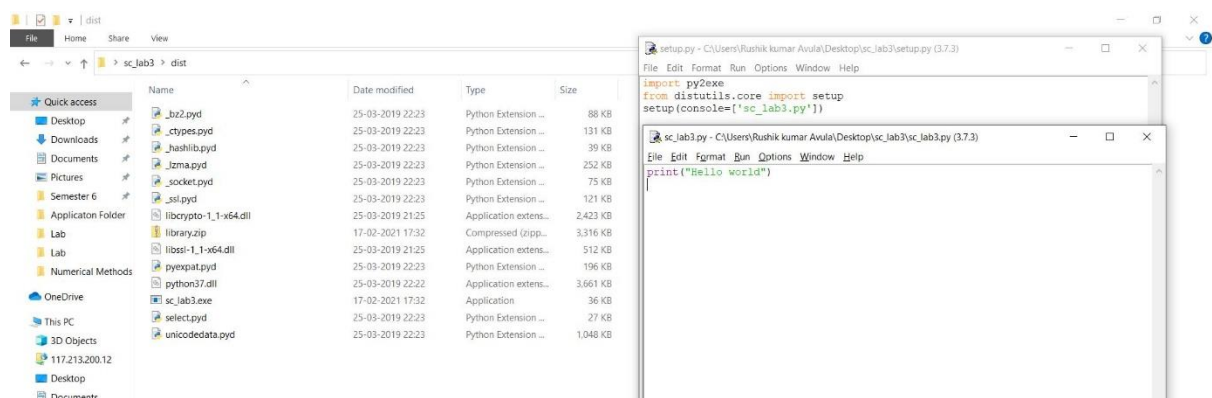
C:\Users\Rushik kumar Avula\Desktop>python setup.py py2exe
python: can't open file 'setup.py': [Errno 2] No such file or directory

C:\Users\Rushik kumar Avula\Desktop>cd sc_lab3

C:\Users\Rushik kumar Avula\Desktop\sc_lab3>python setup.py py2exe

C:\Users\Rushik kumar Avula\Desktop\sc_lab3>python setup.py py2exe
running py2exe

  1 missing Modules
  -----
? readline                                imported from cmd, code, pdb
Building 'dist\sc_lab3.exe'.
Building shared code archive 'dist\library.zip'.
Copy C:\Users\Rushik kumar Avula\AppData\Local\Programs\Python\Python37\python37.dll to dist
Copy C:\Users\Rushik kumar Avula\AppData\Local\Programs\Python\Python37\DLLs\select.pyd to dist\select.pyd
Copy C:\Users\Rushik kumar Avula\AppData\Local\Programs\Python\Python37\DLLs\pyexpat.pyd to dist\pyexpat.pyd
Copy C:\Users\Rushik kumar Avula\AppData\Local\Programs\Python\Python37\DLLs\unicodedata.pyd to dist\unicodedata.pyd
Copy C:\Users\Rushik kumar Avula\AppData\Local\Programs\Python\Python37\DLLs\_socket.pyd to dist\_socket.pyd
Copy C:\Users\Rushik kumar Avula\AppData\Local\Programs\Python\Python37\DLLs\_bz2.pyd to dist\_bz2.pyd
Copy C:\Users\Rushik kumar Avula\AppData\Local\Programs\Python\Python37\DLLs\_lzma.pyd to dist\_lzma.pyd
Copy C:\Users\Rushik kumar Avula\AppData\Local\Programs\Python\Python37\DLLs\_hashlib.pyd to dist\_hashlib.pyd
Copy C:\Users\Rushik kumar Avula\AppData\Local\Programs\Python\Python37\DLLs\_ssl.pyd to dist\_ssl.pyd
Copy C:\Users\Rushik kumar Avula\AppData\Local\Programs\Python\Python37\DLLs\_ctypes.pyd to dist\_ctypes.pyd
Copy DLL C:\Users\Rushik kumar Avula\AppData\Local\Programs\Python\Python37\DLLs\libssl-1_1-x64.dll to dist\
Copy DLL C:\Users\Rushik kumar Avula\AppData\Local\Programs\Python\Python37\DLLs\libcrypto-1_1-x64.dll to dist\
```



## Intermediate:

```
C:\Users\Rushik kumar Avula>schtasks /create /tn Executer /sc minute /mo 5 /tr cal.exe
SUCCESS: The scheduled task "Executer" has successfully been created.

C:\Users\Rushik kumar Avula>schtasks /create /tn Executer2 /sc daily /st 18:01 /et 18:02 /tr notepad.exe
ERROR: The duration (1m) between /ST and /ET must be greater
        than the repetition interval (10m).

C:\Users\Rushik kumar Avula>schtasks /create /tn Executer2 /sc daily /st 18:01 /et 18:10 /tr notepad.exe
ERROR: The duration (9m) between /ST and /ET must be greater
        than the repetition interval (10m).

C:\Users\Rushik kumar Avula>schtasks /create /tn Executer2 /sc daily /st 18:01 /et 18:11 /tr notepad.exe
ERROR: The duration (10m) between /ST and /ET must be greater
        than the repetition interval (10m).

C:\Users\Rushik kumar Avula>schtasks /create /tn Executer2 /sc daily /st 18:01 /et 18:12 /tr notepad.exe
SUCCESS: The scheduled task "Executer2" has successfully been created.

C:\Users\Rushik kumar Avula>schtasks

Folder: \
TaskName                                     Next Run Time                               Status
=====
Adobe Acrobat Update Task                   18-02-2021 16:00:00                        Ready
Executer                                    17-02-2021 18:05:00                        Ready
Executer2                                   17-02-2021 18:11:00                        Running
HPAudioSwitch                               N/A                                         Ready
```

## Defragmentation :

```
C:\Users\Rushik kumar Avula>schtasks /create /tn Executor /tr "defrag.exe C:" /sc daily /st 10:00
SUCCESS: The scheduled task "Executor" has successfully been created.
```

```
C:\Users\Rushik kumar Avula>schtasks

Folder: \
TaskName                                     Next Run Time                               Status
=====
Adobe Acrobat Update Task                   24-02-2021 16:00:00                        Ready
Executor                                    24-02-2021 10:00:00                        Ready
HPAudioSwitch                               N/A                                         Ready
```

## Powercfg :

```
C:\Users\Rushik kumar Avula>powercfg lastwake
Wake History Count - 1
Wake History [0]
    Wake Source Count - 1
    Wake Source [0]
        Type: Fixed Feature
        Power Button

C:\Users\Rushik kumar Avula>powercfg /a
The following sleep states are available on this system:
    Standby (S3)

The following sleep states are not available on this system:
    Standby (S1)
        The system firmware does not support this standby state.

    Standby (S2)
        The system firmware does not support this standby state.

    Hibernate
        Hibernation has not been enabled.

    Standby (S0 Low Power Idle)
        The system firmware does not support this standby state.

    Hybrid Sleep
        Hibernation is not available.

    Fast Startup
        Hibernation is not available.
```

```
Microsoft Windows [Version 10.0.19042.804]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>powercfg energy
Enabling tracing for 60 seconds...
Observing system behavior...
Analyzing trace data...
Analysis complete.

Energy efficiency problems were found.

7 Errors
14 Warnings
42 Informational

See C:\WINDOWS\system32\energy-report.html for more details.
```

#### Attrib:

```
C:\Users\Rushik kumar Avula>attrib /?
Displays or changes file attributes.

ATTRIB [+R | -R] [+A | -A] [+S | -S] [+H | -H] [+O | -O] [+I | -I] [+X | -X] [+P | -P] [+U | -U]
[drive:][path][filename] [/S [/D]] [/L]

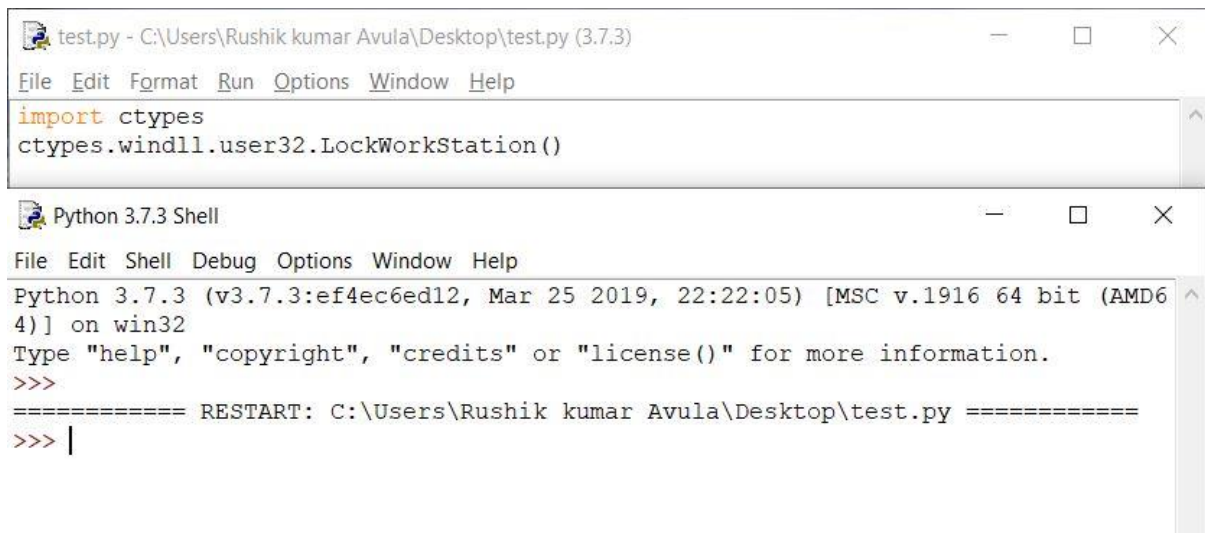
+ Sets an attribute.
- Clears an attribute.
R Read-only file attribute.
A Archive file attribute.
S System file attribute.
H Hidden file attribute.
O Offline attribute.
I Not content indexed file attribute.
X No scrub file attribute.
V Integrity attribute.
P Pinned attribute.
U Unpinned attribute.
B SMR Blob attribute.
[drive:][path][filename]
    Specifies a file or files for attrib to process.
/S Processes matching files in the current folder
    and all subfolders.
/D Processes folders as well.
/L Work on the attributes of the Symbolic Link versus
    the target of the Symbolic Link

C:\Users\Rushik kumar Avula>cd Desktop

C:\Users\Rushik kumar Avula\Desktop>attrib +h +s +r /s /d sc

C:\Users\Rushik kumar Avula\Desktop>attrib -h +s -r /s /d sc
```

## Script for Locking the System :



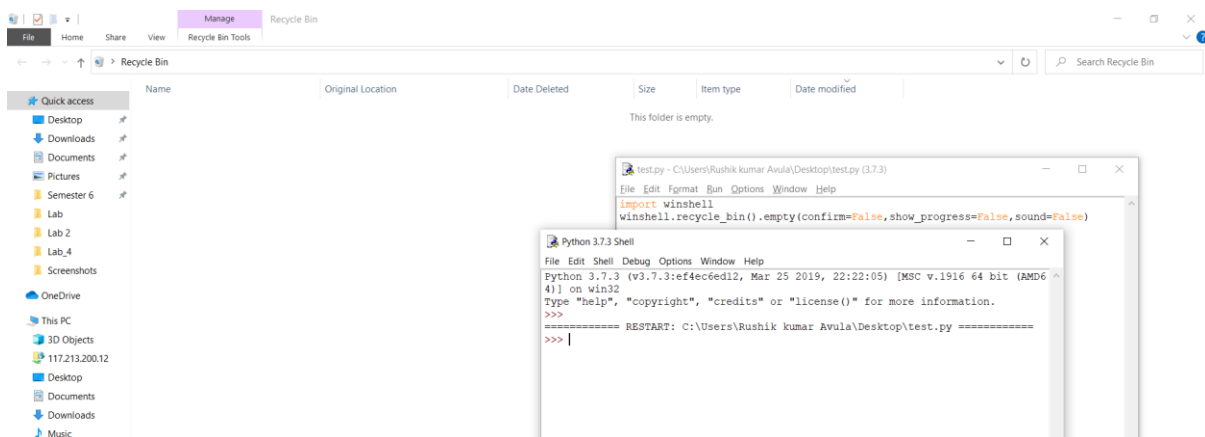
The image shows two windows. The top window is a text editor titled 'test.py - C:\Users\Rushik kumar Avula\Desktop\test.py (3.7.3)'. It contains the following code:

```
import ctypes
ctypes.windll.user32.LockWorkStation()
```

The bottom window is a 'Python 3.7.3 Shell'. It shows the output of running the script:

```
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 22:22:05) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Rushik kumar Avula\Desktop\test.py =====
>>> |
```

## Script for Cleaning Recycling Bin :



The image shows a Windows File Explorer window titled 'Recycle Bin'. The left sidebar shows 'Quick access' with links to Desktop, Downloads, Documents, Pictures, Semester 6, Lab, Lab 2, Lab 4, and Screenshots. The main area shows 'This folder is empty.' Below this, there are two overlapping windows. The top one is a text editor titled 'test.py - C:\Users\Rushik kumar Avula\Desktop\test.py (3.7.3)'. It contains the following code:

```
import winshell
winshell.recycle_bin().empty(confirm=False, show_progress=False, sound=False)
```

The bottom window is a 'Python 3.7.3 Shell'. It shows the output of running the script:

```
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 22:22:05) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Rushik kumar Avula\Desktop\test.py =====
>>> |
```