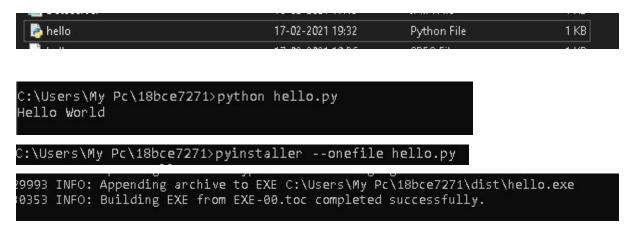## Secure Coding -Lab4

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L39 +L40

Questions :

1.

- **Write a python script to print hello world.**
- **Convert the script into executable (use pyinstaller or py2exe – any of your choice).**
- **Schedule a task named "Python execution" to run the above executable on the first Monday of every month.**


```
C:\Users\My Pc\18bce7271>python hello.py
Hello World
```

```
C:\Users\My Pc\18bce7271>pyinstaller --onefile hello.py

9993 INFO: Appending archive to EXE C:\Users\My Pc\18bce7271\dist\hello.exe
0353 INFO: Building EXE from EXE-00.toc completed successfully.
```

Creating the task

```
C:\Users\My Pc>SCHTASKS /Create /SC MONTHLY /MO first /D MON /TN PythonExecution /TR "C:\Users\My Pc\18bce7271\dist\hell
lo.exe"
SUCCESS: The scheduled task "PythonExecution" has successfully been created.
```

Task has been created .

2.

- Schedule a task named "Executer" on your machine to run calculator for every five minutes starting from the specified start time with no end
- Schedule a task named "Executer2" to run notepad starting at 5:00PM and automatically terminating at 5:40PM hours every day

(1)
Creating task

```
C:\Users\My Pc> SCHTASKS /Create /SC MINUTE /MO 5 /TN "Executer" /TR "C:\windows\system32\Calculator.exe " /ST 09:00
SUCCESS: The scheduled task "Executer" has successfully been created.

C:\Users\My Pc>
```

Task created
(2)
Creating task

```
C:\Users\My Pc> SCHTASKS /Create /SC DAILY /TN "Executer2" /TR "C:\windows\system32\Notepad " /ST 17:00 /ET 17:40 /K
SUCCESS: The scheduled task "Executer2" has successfully been created.

C:\Users\My Pc>
```

Task created

3.

Schedule a task named "Logger" to log your internet explorer activity to a separate text file

Creating task

```
C:\Users\My Pc>SCHTASKS /Create /SC Daily /TN "logtrackker" /TR c:\windows\system32\notepad.exe
SUCCESS: The scheduled task "logtrackker" has successfully been created.
```

Schedule a task to defragment any of your local disk daily at 10AM

```
C:\Users\My Pc>SCHTASKS /Create /SC Daily /TN "DEFRAGMENT" /TR c:\windows\system32\defrag.exe /ST 10:00
SUCCESS: The scheduled task "DEFRAGMENT" has successfully been created.

C:\Users\My Pc>
```

4.Powercfg

Lastwake :

```
C:\WINDOWS\system32>powercfg/lastwake
Wake History Count - 1
Wake History [0]
  Wake Source Count - 1
  Wake Source [0]
    Type: Fixed Feature
    Power Button
```

Sleepstudy :

```
C:\WINDOWS\system32>powercfg /sleepstudy
Sleep Study report saved to file path C:\WINDOWS\system32\sleepstudy-report.html.
```

Energy:

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

Energy efficiency problems were found.

6 Errors
18 Warnings
25 Informational

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

```
C:\WINDOWS\system32>powercfg /waketimers
Timer set by [PROCESS] \Device\HarddiskVolume4\Windows\SystemApps\Microsoft.Windows.StartMenuExperi
\StartMenuExperienceHost.exe expires at 04:00:00 on .
```

```
C:\WINDOWS\system32>powercfg /hibernate on

C:\WINDOWS\system32>powercfg /hibernate off

C:\WINDOWS\system32>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.

C:\WINDOWS\system32>
```

5.

Write a script to perform the following jobs

- To lock your PC(Win + L)
- To clear your recycle bin

(1)

```
@echo off
rundll32.exe user32.dll, LockWorkStation
Cls
```

(2) rmdir /s %systemdrive%\$Recycle.bin

6

- Create a task name "Reg.no_Task1" to run on a specific time
- Change the time of the scheduled task
- Delete the scheduled task
- Schedule an another task to run only on Weekdays
- Schedule an another task to run only on Weekends

(1)
Creating task

```
C:\Users\My Pc>SCHTASKS /Create /SC DAILY /TN 18bce7271_Task1 /TR c:\Desktop /ST 12:00
SUCCESS: The scheduled task "18bce7271_Task1" has successfully been created.

C:\Users\My Pc>
```

Task created

(2)

```
C:\Users\My Pc>SCHTASKS /Change /TN 18bce7271_Task1 /ST 13:00
Please enter the run as password for My Pc: ******************

SUCCESS: The parameters of scheduled task "18bce7271_Task1" have been changed.

C:\Users\My Pc>
```

(3)

```
C:\Users\My Pc>SCHTASKS /Delete /TN 18bce7271_Task1
WARNING: Are you sure you want to remove the task "18bce7271_Task1" (Y/N)? y
SUCCESS: The scheduled task "18bce7271_Task1" was successfully deleted.

C:\Users\My Pc>
```

(4)

```
C:\Users\My Pc>SCHTASKS /CREATE /SC WEEKLY /D MON,TUE,WED,THU,FRI /TN SUMANTH /TR "C:\Windows\system
SUCCESS: The scheduled task "SUMANTH" has successfully been created.
```

(5)

```
C:\Users\My Pc>SCHTASKS /CREATE /SC WEEKLY /D SAT,SUN /TN SUMANTH /TR "C:\Windows\system32\N
SUCCESS: The scheduled task "SUMANTH" has successfully been created.
```