

SECURE CODING

LAB – 4

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- 18BCN7112

The pyinstaller is used for the sake of converting of .py file to a executable (.exe). Here Hello.py is converted into Hello.exe.

```
E:\Python-works\codes>pyinstaller --onefile Hello.py
1141 INFO: PyInstaller: 4.2
1141 INFO: Python: 3.9.2
35250 INFO: Updating resource type 24 name 1 language 0
35266 INFO: Appending archive to EXE E:\Python-works\codes\dist\Hello.exe
35531 INFO: Building EXE from EXE-00.toc completed successfully.
```

For scheduling a task we use the command **Schtasks**.

```
E:\Python-works\codes>schtasks /create /sc monthly /mo first /d mon /tn PyhtonExecution /tr "E:\Python-works\codes\dist\Hello.exe"
SUCCESS: The scheduled task "PyhtonExecution" has successfully been created.
```

The below is the task name “Executer” scheduled to run a calculator for every 5 mins starting from 9am to indefinitely.

```
C:\Users\My Pc> SHTASKS /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>
```

The below is the creation of the task name Executer2 which runs notepad daily from start time 5pm to 5:40 pm.

```
C:\Users\My Pc> SHTASKS /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>
```

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

```
C:\Users\My Pc>SHTASKS /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>
```

Task name Defragment this runs daily from starting 10AM to run the defrag command on the cmd.

```
C:\Users\My Pc>SHTASKS /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>
```

Powercfg:

```
C:\WINDOWS\system32>powercfg/lastwake
Wake History Count - 1
Wake History [0]
Wake Source Count - 1
Wake Source [0]
Type: Device
Instance Path: HID\ELAN1200&Col01\4&308e827&0&0000
Friendly Name:
Description: HID-compliant mouse
Manufacturer: Microsoft

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

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

Energy efficiency problems were found.

3 Errors
5 Warnings
24 Informational

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

```

C:\WINDOWS\system32>powercfg /waketimer
Invalid Parameters -- try "/" for help

C:\WINDOWS\system32>powercfg /waketimers
Timer set by [PROCESS] \Device\HarddiskVolume3\Windows\SystemApps\Microsoft.Windows.StartMenuExperienceHost_cw5n1h2txyewy\StartMenuExperienceHost.exe expires at 04:00:00 on 12/1/2016.

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.

```

Scripts to lock the windows screen and to clear the recycle bin:

1. @echo off
rundll32.exe user32.dll, LockWorkStation
Cls
2. rmdir /s %systemdrive%\\$Recycle.bin

• Create a task name “Reg.no_Task1” to run on a specific time

```

C:\Users\gajav>schtasks /create /sc daily /tn 18BCN7112_Task1 /tr c:\Desktop /st 12:00
SUCCESS: The scheduled task "18BCN7112_Task1" has successfully been created.

```

• Change the time of the scheduled task

```

C:\Users\gajav>schtasks /change /tn 18BCN7112_Task1 /st 13:00
Please enter the run as password for gajavalli_jay_venkat: *****

SUCCESS: The parameters of scheduled task "18BCN7112_Task1" have been changed.

```

- **Delete the scheduled task**

```
C:\Users\gajav>schtasks /delete /tn 18BCN7112_Task1
WARNING: Are you sure you want to remove the task "18BCN7112_Task1" (Y/N)? y
SUCCESS: The scheduled task "18BCN7112_Task1" was successfully deleted.
```

- **Schedule an another task to run only on Weekdays**

```
C:\Users\gajav>schtasks /create /sc weekly /d mon,tue,wed,thu,fri /tn Jay /tr c:\Desktop /st 12:00 /et 12:11
SUCCESS: The scheduled task "Jay" has successfully been created.
```

- **Schedule an another task to run only on Weekends**

```
C:\Users\gajav>schtasks /create /sc weekly /d sat,sun /tn Jay2 /tr c:\Desktop /st 12:00 /et 12:11
SUCCESS: The scheduled task "Jay2" has successfully been created.
```