Lab 4 – Job Automation

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<u>NAME</u>:- Chaitanya <u>Course</u>:- Secure Coding

Reg Num: - 19BCN7083 Faculty: - Dr. Sibi Chakkaravarthy

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Write a python script to print hello world.



 Convert the script into executable (use pyinstaller or py2exe – any of your choice

```
C:\Users\chait>pip install pyinstaller
Collecting pyinstaller
 Using cached pyinstaller-4.2-py3-none-any.whl
Collecting pefile>=2017.8.1
 Using cached pefile-2019.4.18.tar.gz (62 kB)
Collecting pywin32-ctypes>=0.2.0
 Using cached pywin32 ctypes-0.2.0-py2.py3-none-any.whl (28 kB)
Collecting pyinstaller-hooks-contrib>=2020.6
 Using cached pyinstaller hooks contrib-2020.11-py2.py3-none-any.whl (172 kB)
Collecting altgraph
 Using cached altgraph-0.17-py2.py3-none-any.whl (21 kB)
Requirement already satisfied: setuptools in c:\python\lib\site-packages (from pyinstaller) (49.2.1)
Collecting future
 Using cached future-0.18.2.tar.gz (829 kB)
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, pywin32-ctypes, pyinstaller-hooks-contrib, pefile, altgraph, pyinstaller
   Running setup.py install for future ... done
   Running setup.py install for pefile ... done
Successfully installed altgraph-0.17 future-0.18.2 pefile-2019.4.18 pyinstaller-4.2 pyinstaller-hooks-contrib-2020.11 pywin32-ctypes-0.2.0
```

```
C:\Users\chait>pyinstaller C:\Users\chait\OneDrive\Desktop\Hello_World.py
376 INFO: PyInstaller: 4.2
376 INFO: Python: 3.9.1
378 INFO: Platform: Windows-10-10.0.18362-SP0
381 INFO: wrote C:\Users\chait\Hello_World.spec
380 INFO: WPX is not available.
416 INFO: Extending PYTHONPATH with paths
['C:\\Users\\chait\\OneDrive\\Desktop', 'C:\\Users\\chait']
449 INFO: Checking Analysis
449 INFO: Building Analysis because Analysis-00.toc is non existent
450 INFO: Initializing module dependency graph...
456 INFO: Caching module graph hooks...
469 WARNING: Several hooks defined for module 'win32ctypes.core'. Please take of Society of the S
```

• Schedule a task named "Python execution" to run the above executable on the first Monday of every month.

C:\Users\chait>schtasks /create /sc monthly /mo first /d mon /tn "Python execution" /tr C:\Users\chait\build\Hello_World\Hello_World.exe SUCCESS: The scheduled task "Python execution" has successfully been created. C:\Users\chait>

 Schedule a task named "Executer" on your machine to run calculator for every five minutes starting from the specified start time with no end

C:\Users\chait>schtasks /create /sc minute /mo 5 /tn "Executer" /tr calc.exe /st 12:00 SUCCESS: The scheduled task "Executer" has successfully been created.

• Schedule a task named "Executer2" to run notepad starting at 5:00PM and automatically terminating at 5:40PM hours every day

C:\Users\chait>schtasks /create /sc daily /tn "Executer2" /tr notepad.exe /st 17:00 /et 17:40 /k SUCCESS: The scheduled task "Executer2" has successfully been created.

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

C:\Users\chait>schtasks /create /tn "execution3" /tr "defrag.exe C:" /sc daily /st 10:00 SUCCESS: The scheduled task "execution3" has successfully been created.

C:\Users\chait>

• Write a script to perform the following jobs:

To lock your windows PC (Windows+L):

import ctypes
ctypes.windll.user32.LockWorkStation()

To clear your Recycle Bin:

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

• Attrib

Powercfg

```
C:\Users\chait>powercfg /energy
Enabling tracing for 60 seconds...
Observing system behavior...
C:\Users\chait>Powercfg /lastwake
Wake History Count - 1
Wake History [0]
 Wake Source Count - 1
 Wake Source [0]
    Type: Fixed Feature
    Power Button
C:\Users\chait>powercfg /a
The following sleep states are available on this system:
    Standby (S3)
    Hibernate
    Hybrid Sleep
    Fast Startup
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.
    Standby (S0 Low Power Idle)
        The system firmware does not support this standby state.
```