

SECURE CODING LAB – 4

NAME : G SINDHU

REG NO. : 18BCN7098

1. Write a python script to print hello world.

```
C:\Users\Gurram Sindhu\Desktop>python 18BCN7098.py
HelloWorld
```

2. Convert the script into Executable (use pyinstaller or py2exe-any of your choice)

```
C:\Users\Gurram Sindhu\Desktop>pip install pyinstaller
Collecting pyinstaller
  Downloading pyinstaller-4.2.tar.gz (3.6 MB)
    | 3.6 MB 19 kB/s
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing wheel metadata ... done
Requirement already satisfied: setuptools in c:\users\gurram sindhu\lib\site-packages (from pyinstaller) (49.2.1)
Collecting pefile>=2017.8.1; sys_platform == "win32"
  Downloading pefile-2019.4.18.tar.gz (62 kB)
    | 62 kB 40 kB/s
Collecting altgraph
  Downloading altgraph-0.17-py2.py3-none-any.whl (21 kB)
Collecting pyinstaller-hooks-contrib>=2020.6
  Downloading pyinstaller-hooks-contrib-2020.11-py2.py3-none-any.whl (172 kB)
    | 172 kB 930 kB/s
Collecting pywin32-ctypes>=0.2.0; sys_platform == "win32"
  Downloading pywin32-ctypes-0.2.0-py2.py3-none-any.whl (28 kB)
Collecting future
  Downloading future-0.18.2.tar.gz (829 kB)
    | 829 kB 95 kB/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.
Building wheels for collected packages: pyinstaller
  Building wheel for pyinstaller (PEP 517) ... done
  Created wheel for pyinstaller: filename=pyinstaller-4.2-py3-none-any.whl size=2413076 sha256=26e29bb481ff6400702a4442d11687024cc35b6a4eb8d66062ba8fc7b0838f53
  Stored in directory: c:\users\gurram sindhu\appdata\local\pip\cache\wheels\b2\10\66\947cc1c6aebd3e270efd8ec60cf7656d5cbad06c0b34eae143
Successfully built pyinstaller
Installing collected packages: future, pefile, altgraph, pyinstaller-hooks-contrib, pywin32-ctypes, 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\Gurram Sindhu\Desktop>pyinstaller 18BCN7098.py
698 INFO: PyInstaller: 4.2
699 INFO: Python: 3.9.2
702 INFO: Platform: Windows-10-10.0.19041-SP0
705 INFO: wrote C:\Users\Gurram Sindhu\Desktop\18BCN7098.spec
709 INFO: UPX is not available.
714 INFO: Extending PYTHONPATH with paths
['C:\Users\Gurram Sindhu\Desktop', 'C:\Users\Gurram Sindhu\Desktop']
746 INFO: checking Analysis
747 INFO: Building Analysis because Analysis-00.toc is non-existent
752 INFO: Initializing module dependency graph...
756 INFO: Caching module graph hooks...
774 WARNING: Several hooks defined for module 'win32ctypes.core'. Please take care they do not conflict.
785 INFO: Analyzing base_library.zip ...
8343 INFO: Processing pre-find module path hook distutils from 'c:\users\gurram sindhu\lib\site-packages\PyInstaller\hooks\pre_find_module_path\hook-distutils.py'.
8344 INFO: distutils: retargeting to non-venv dir 'c:\users\gurram sindhu\lib'
13935 INFO: Caching module dependency graph...
14224 INFO: running Analysis Analysis-00.toc
14260 INFO: Adding Microsoft.Windows.Common-Controls to dependent assemblies of final executable
   required by c:\users\gurram sindhu\python.exe
14603 WARNING: lib not found: api-ms-win-core-path-l1-1-0.dll dependency of c:\users\gurram sindhu\python39.dll
15478 INFO: Analyzing C:\Users\Gurram Sindhu\Desktop\18BCN7098.py
15481 INFO: Processing module hooks...
15482 INFO: Loading module hook 'hook-difflib.py' from 'c:\users\gurram sindhu\lib\site-packages\PyInstaller\hooks'...
15485 INFO: Excluding import of doctest from module difflib
15485 INFO: Loading module hook 'hook-distutils.py' from 'c:\users\gurram sindhu\lib\site-packages\PyInstaller\hooks'...
15525 INFO: Loading module hook 'hook-distutils.util.py' from 'c:\users\gurram sindhu\lib\site-packages\PyInstaller\hooks'...
```

3. Schedule a task named “python execution” to run the above executable on the first Monday of every month.

```
C:\Users\Gurram Sindhu\Desktop>schtasks /create /sc monthly /mo first /d mon /tn "python execution" /tr 18BCN7098.py
SUCCESS: The scheduled task "python execution" has successfully been created.

C:\Users\Gurram Sindhu\Desktop>
```

4. 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\Gurram Sindhu\Desktop>schtasks /create /sc minute /mo 5 /tn "Executer" /tr calc.exe /st 12:00
SUCCESS: The scheduled task "Executer" has successfully been created.
```

5. Schedule a task named “Executer 2” to run notepad starting at 5:00 PM and automatically terminating at 5:40PM hours every day.

```
C:\Users\Gurram Sindhu\Desktop>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.

C:\Users\Gurram Sindhu\Desktop>
```

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

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

C:\Users\Gurram Sindhu\Desktop>
```

Attribute command

```
C:\Users\Gurram Sindhu>attrib
A          C:\Users\Gurram Sindhu\.emulator_console_auth_token
A          C:\Users\Gurram Sindhu\dir
A          C:\Users\Gurram Sindhu\LICENSE.txt
A          C:\Users\Gurram Sindhu\NEWS.txt
A H I      C:\Users\Gurram Sindhu\NTUSER.DAT
A SH      C:\Users\Gurram Sindhu\ntuser.dat.LOG1
A SH      C:\Users\Gurram Sindhu\ntuser.dat.LOG2
A SH      C:\Users\Gurram Sindhu\NTUSER.DAT{7a8e5138-1506-11eb-bd28-00155d7fe748}.TM.blf
A SH      C:\Users\Gurram Sindhu\NTUSER.DAT{7a8e5138-1506-11eb-bd28-00155d7fe748}.TMContainer0000000000000000
0001.regtrans-ms
A SH      C:\Users\Gurram Sindhu\NTUSER.DAT{7a8e5138-1506-11eb-bd28-00155d7fe748}.TMContainer0000000000000000
0002.regtrans-ms
SH        C:\Users\Gurram Sindhu\ntuser.ini
A          C:\Users\Gurram Sindhu\python.exe
A          C:\Users\Gurram Sindhu\python3.dll
A          C:\Users\Gurram Sindhu\python39.dll
A          C:\Users\Gurram Sindhu\pythonw.exe
A          C:\Users\Gurram Sindhu\vcruntime140.dll
A          C:\Users\Gurram Sindhu\vcruntime140_1.dll

C:\Users\Gurram Sindhu>
```

7. Write a script to perform the following jobs:
To clear recyle bin

```
C:\Windows\System32>rmdir /s %systemdrive%\$Recycle.bin
C:\$Recycle.bin, Are you sure (Y/N)? y
C:\$Recycle.bin\S-1-5-18 - Access is denied.
C:\$Recycle.bin\S-1-5-~1 - Access is denied.
C:\$Recycle.bin\S-1-5-~2\%R05RfKR\AppDataProvider.dll - Access is denied.
C:\$Recycle.bin\S-1-5-~2\%R05RfKR\AssocProvider.dll - Access is denied.
C:\$Recycle.bin\S-1-5-~2\%R05RfKR\CbsProvider.dll - Access is denied.
C:\$Recycle.bin\S-1-5-~2\%R05RfKR\DismCore.dll - Access is denied.
C:\$Recycle.bin\S-1-5-~2\%R05RfKR\DismCorePS.dll - Access is denied.
C:\$Recycle.bin\S-1-5-~2\%R05RfKR\DismHost.exe - Access is denied.
C:\$Recycle.bin\S-1-5-~2\%R05RfKR\DismProv.dll - Access is denied.
C:\$Recycle.bin\S-1-5-~2\%R05RfKR\DmiProvider.dll - Access is denied.
C:\$Recycle.bin\S-1-5-~2\%R05RfKR\en-US\AppDataProvider.dll.mui - Access is denied.
C:\$Recycle.bin\S-1-5-~2\%R05RfKR\en-US\AssocProvider.dll.mui - Access is denied.
C:\$Recycle.bin\S-1-5-~2\%R05RfKR\en-US\CbsProvider.dll.mui - Access is denied.
```

Powercfg:

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

C:\Users\Gurram Sindhu>powercfg /energy
This command requires administrator privileges and must be executed from an elevated command prompt.

C:\Users\Gurram Sindhu>powercfg /lastwake
Wake History Count - 0

C:\Users\Gurram Sindhu>powercfg /a
The following sleep states are available on this system:
    Standby (S3)
    Hibernate

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.

    Hybrid Sleep
        The hypervisor does not support this standby state.

    Fast Startup
        This action is disabled in the current system policy.
```