

## SECURE CODING LAB - 4

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1. Write a python script to print "hello world".

```
Command Prompt

C:\Users\bhara\Documents>python hello.py
Hello World!

C:\Users\bhara\Documents>_
```

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

```
Command Prompt

C:\Users\bhara\Documents>python hello.py
Hello World!

C:\Users\bhara\Documents>pip install pyinstaller
Collecting pyinstaller
  Downloading pyinstaller-4.3.tar.gz (3.7 MB)
    | 3.7 MB 89 kB/s
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing wheel metadata ... done
Requirement already satisfied: setuptools in c:\users\bhara\appdata\local\programs\python\python38\lib\site-packages (from pyinstaller) (49.2.1)
Collecting pefile>=2017.8.1; sys_platform == "win32"
  Downloading pefile-2021.5.24.tar.gz (66 kB)
    | 66 kB 1.1 MB/s
Collecting altgraph
  Downloading altgraph-0.17-py2.py3-none-any.whl (21 kB)
Collecting pyinstaller-hooks-contrib>=2020.6
  Downloading pyinstaller_hooks_contrib-2021.1-py2.py3-none-any.whl (181 kB)
    | 181 kB ...
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 3.3 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.
Building wheels for collected packages: pyinstaller
  Building wheel for pyinstaller (PEP 517) ... done
```

```
Command Prompt

C:\Users\bhara\Documents>pyinstaller hello.py
65 INFO: PyInstaller: 4.3
65 INFO: Python: 3.9.2
66 INFO: Platform: Windows-10-10.0.19041-SP0
67 INFO: wrote C:\Users\bhara\Documents\hello.spec
70 INFO: UPX is not available.
72 INFO: Extending PYTHONPATH with paths
['C:\\Users\\bhara\\Documents', 'C:\\Users\\bhara\\Documents']
81 INFO: checking Analysis
81 INFO: Building Analysis because Analysis-00.toc is non existent
81 INFO: Initializing module dependency graph...
83 INFO: Caching module graph hooks...
94 WARNING: Several hooks defined for module 'win32ctypes.core'. Please take care they do not conflict.
98 INFO: Analyzing base_library.zip ...
2214 INFO: Processing pre-find module path hook distutils from 'c:\\users\\bhara\\appdata\\local\\programs\\python\\python39\\lib\\site-packages\\PyInstaller\\hooks\\pre_find_module_path\\hook-distutils.py'.
2216 INFO: distutils: retargeting to non-venv dir 'c:\\users\\bhara\\appdata\\local\\programs\\python\\python39\\lib'
3800 INFO: Caching module dependency graph...
3935 INFO: running Analysis Analysis-00.toc
3938 INFO: Adding Microsoft.Windows.Common-Controls to dependent assemblies of final executable
```

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

```
Command Prompt

C:\Users\bhara\Documents>schtasks /create /sc monthly /mo first /d mon /tn "PythonExecution" /tr hello.py
SUCCESS: The scheduled task "PythonExecution" has successfully been created.

C:\Users\bhara\Documents>
```

**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\bhara\Documents>schtasks /create /sc minute /mo 5 /tn "Executor" /tr calc.exe /st 12:00
SUCCESS: The scheduled task "Executor" has successfully been created.

C:\Users\bhara\Documents>_
```

**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\bhara\Documents>schtasks /create /sc daily /tn "Executor2" /tr notepad.exe /st 17:00 /et 17:40 /k
SUCCESS: The scheduled task "Executor2" has successfully been created.

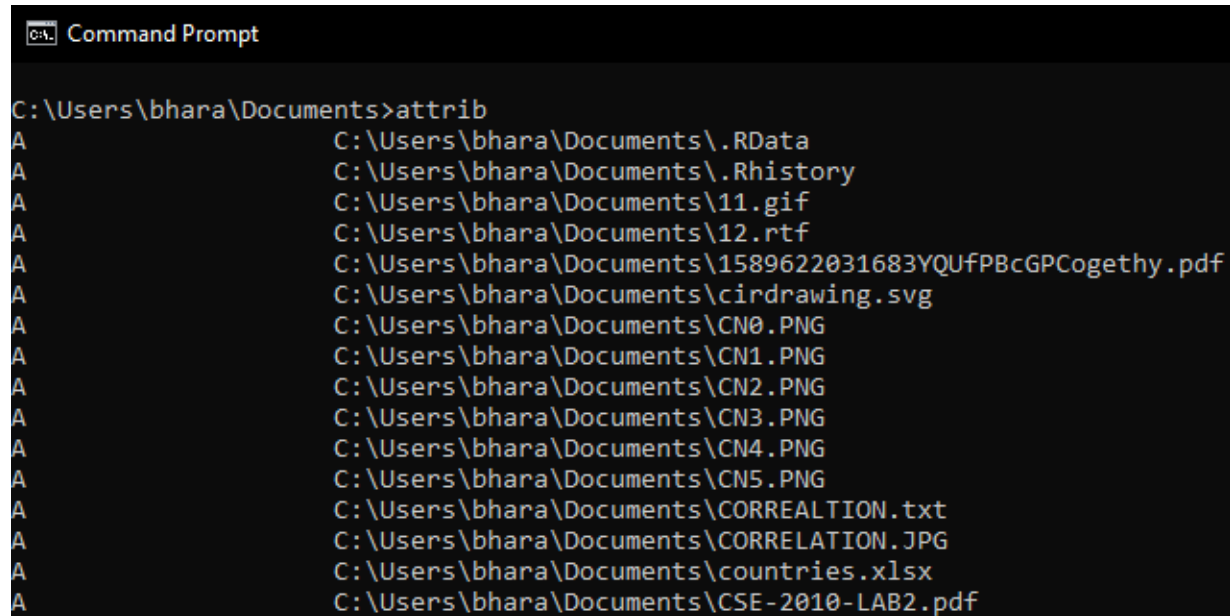
C:\Users\bhara\Documents>
```

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

```
C:\Users\bhara\Documents>schtasks /create /tn "Executor3" /tr defrag.exe /sc daily /st 10:00
SUCCESS: The scheduled task "Executor3" has successfully been created.

C:\Users\bhara\Documents>
```

## Attribute command



```
C:\Users\bhara\Documents>attrib
A             C:\Users\bhara\Documents\.RData
A             C:\Users\bhara\Documents\.Rhistory
A             C:\Users\bhara\Documents\11.gif
A             C:\Users\bhara\Documents\12.rtf
A             C:\Users\bhara\Documents\1589622031683YQUfPBcGPCogethy.pdf
A             C:\Users\bhara\Documents\cirdrawing.svg
A             C:\Users\bhara\Documents\CN0.PNG
A             C:\Users\bhara\Documents\CN1.PNG
A             C:\Users\bhara\Documents\CN2.PNG
A             C:\Users\bhara\Documents\CN3.PNG
A             C:\Users\bhara\Documents\CN4.PNG
A             C:\Users\bhara\Documents\CN5.PNG
A             C:\Users\bhara\Documents\CORREALTION.txt
A             C:\Users\bhara\Documents\CORRELATION.JPG
A             C:\Users\bhara\Documents\countries.xlsx
A             C:\Users\bhara\Documents\CSE-2010-LAB2.pdf
```

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

```
C:\WINDOWS\system32>rmdir /s %systemdrive%\$Recycle.bin
C:\$Recycle.bin, Are you sure (Y/N)? y

C:\WINDOWS\system32>
```

## Powercfg:

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19041.985]
(c) 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.

4 Errors
9 Warnings
66 Informational

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

C:\WINDOWS\system32>
```

```
C:\Users\bhara>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.
```

```
C:\Users\bhara>powercfg /lastwake
Wake History Count - 1
Wake History [0]
    Wake Source Count - 0
```