Secure Coding Lab – 4

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Mid-Level

• Write a python programme to print Hello World.

Python script:
print ('hello world 19BCN7258')

G:\Secure Coding LABS\lab4>python 18BCN7081.py hello world 18BCN7081

 Convert the script into executable (use <u>pyinstaller</u> or py2exe – any of your choice).

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G:\Secure Coding LABS\lab4>pyinstaller -F 19BCN7258.py 401 INFO:
PyInstaller: 4.2

401 INFO: Python: 3.9.0

417 INFO: Platform: Windows-10-10.0.19041-SP0

417 INFO: wrote G:\Secure Coding LABS\lab4\l9BCN7258.spec 417 INFO:
UPX is not available.

432 INFO: Extending PYTHONPATH with paths

['G:\\Secure Coding LABS\\lab4', 'G:\\Secure Coding LABS\\lab4'] 517
INFO: checking Analysis

517 INFO: Building Analysis because Analysis-00.toc is non existent
517 INFO: Initializing module dependency graph...
533 INFO: Caching module graph hooks...
533 WARNING: Several hooks defined for module

'win32ctypes.core'. Please take care they do not conflict. 571 INFO:
Analyzing base_library.zip ...

7244 INFO: Processing pre-find module path hook distutils from 'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\\\lib\\site-packages\\PyInstaller\\hooks\\pre_find_module_path\\hookdistutils.py'.

7245 INFO: distutils: retargeting to non-venv dir

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'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\
\lib'
13460 INFO: Caching module dependency graph...
13590 INFO: running Analysis Analysis-00.toc
13597 INFO: Adding Microsoft.Windows.Common-Controls to dependent
assemblies of final executable
required by
c:\users\SAIVAMSI\appdata\local\programs\python\python39\python.e xe
13742 WARNING: lib not found: api-ms-win-core-path-l1-1-0.dll
dependency of
\verb|c:\users\SAIVAMSI\appdata\local\programs\python\python39\python39 .dll| \\
13785 INFO: Analyzing G:\Secure Coding LABS\lab4\19BCN7258.py 13808
INFO: Processing module hooks...
13809 INFO: Loading module hook 'hook-difflib.py' from
'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\
\lib\\site-packages\\PyInstaller\\hooks'...
13811 INFO: Excluding import of doctest from module difflib 13812
INFO: Loading module hook 'hook-distutils.py' from
'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\
\lib\\site-packages\\PyInstaller\\hooks'...
13815 INFO: Loading module hook 'hook-distutils.util.py' from
'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\
\lib\\site-packages\\PyInstaller\\hooks'...
13818 INFO: Excluding import of lib2to3.refactor from module
distutils.util
13819 INFO: Loading module hook 'hook-encodings.py' from
'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\
\lib\\site-packages\\PyInstaller\\hooks'...
13929 INFO: Loading module hook 'hook-heapq.py' from
'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\
\lib\\site-packages\\PyInstaller\\hooks'...
13933 INFO: Excluding import of doctest from module heapg 13933 INFO:
Loading module hook 'hook-lib2to3.py' from
'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\
\lib\\site-packages\\PyInstaller\\hooks'...
13994 INFO: Loading module hook 'hook-multiprocessing.util.py' from
'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\
\lib\\site-packages\\PyInstaller\\hooks'...
```

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13997 INFO: Excluding import of test.support from module
multiprocessing.util
13998 INFO: Excluding import of test from module
multiprocessing.util
14000 INFO: Loading module hook 'hook-pickle.py' from
'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\
\lib\\site-packages\\PyInstaller\\hooks'...
14002 INFO: Excluding import of argparse from module pickle 14002
INFO: Loading module hook 'hook-sysconfig.py' from
'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\
\lib\\site-packages\\PyInstaller\\hooks'...
14066 INFO: Loading module hook 'hook-xml.etree.cElementTree.py' from
'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\
\lib\\site-packages\\PyInstaller\\hooks'...
14069 INFO: Loading module hook 'hook-xml.py' from
'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\
\lib\\site-packages\\PyInstaller\\hooks'...
14290 INFO: Loading module hook 'hook- tkinter.py' from
'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\
\lib\\site-packages\\PyInstaller\\hooks'...
14562 INFO: checking Tree
14562 INFO: Building Tree because Tree-00.toc is non existent 14564
INFO: Building Tree Tree-00.toc
14658 INFO: checking Tree
14659 INFO: Building Tree because Tree-01.toc is non existent 14662
INFO: Building Tree Tree-01.toc
14775 INFO: checking Tree
14775 INFO: Building Tree because Tree-02.toc is non existent 14779
INFO: Building Tree Tree-02.toc
14816 INFO: Looking for ctypes DLLs
14849 INFO: Analyzing run-time hooks ...
14852 INFO: Including run-time hook
'c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39\
\lib\\site-packages\\PyInstaller\\hooks\\rthooks\\pyi rth multip
rocessing.py'
14876 INFO: Looking for dynamic libraries
```

15221 INFO: Looking for eggs 15221 INFO: Using Python library $\verb|c:\users\SAIVAMSI\appdata\local\programs\python\python39\python39 .dll| \\$ 15224 INFO: Found binding redirects: [] 15229 INFO: Warnings written to G:\Secure Coding LABS\lab4\build\19BCN7258\warn-19BCN7258.txt 15299 INFO: Graph cross-reference written to G:\Secure Coding LABS\lab4\build\19BCN7258\xref-19BCN7258.html 15359 INFO: checking PYZ 15359 INFO: Building PYZ because PYZ-00.toc is non existent 15361 INFO: Building PYZ (ZlibArchive) G:\Secure Coding LABS\lab4\build\19BCN7258\PYZ-00.pyz 15898 INFO: Building PYZ (ZlibArchive) G:\Secure Coding LABS\lab4\build\19BCN7258\PYZ-00.pyz completed successfully. 15930 INFO: checking PKG 15930 INFO: Building PKG because PKG-00.toc is non existent 15931 INFO: Building PKG (CArchive) PKG-00.pkg 18229 INFO: Building PKG (CArchive) PKG-00.pkg completed successfully. 18232 INFO: Bootloader c:\users\SAIVAMSI\appdata\local\programs\python\python39\lib\site packages\PyInstaller\bootloader\Windows-64bit\run.exe 18233 INFO: checking EXE 18235 INFO: Building EXE because EXE-00.toc is non existent 18235 INFO: Building EXE from EXE-00.toc 18368 INFO: Copying icons from ['c:\\users\\SAIVAMSI\\appdata\\local\\programs\\python\\python39 \\lib\\site-packages\\PyInstaller\\bootloader\\images\\icon-cons ole.ico'l 18442 INFO: Writing RT GROUP ICON 0 resource with 104 bytes 18443 INFO: Writing RT ICON 1 resource with 3752 bytes 18445 INFO: Writing RT ICON 2 resource with 2216 bytes 18447 INFO: Writing RT ICON 3 resource with 1384 bytes 18447 INFO: Writing RT ICON 4 resource with

37019 bytes 18448 INFO: Writing RT_ICON 5 resource with 9640 bytes 18449 INFO: Writing RT_ICON 6 resource with 4264 bytes 18449 INFO: Writing RT ICON 7 resource with 1128 bytes 18463 INFO: Updating

manifest in G:\Secure Coding
LABS\lab4\build\19BCN7258\run.exe.rawka8ta

18528 INFO: Updating resource type 24 name 1 language 0 18533 INFO: Appending archive to EXE G:\Secure Coding LABS\lab4\dist\19BCN7258.exe

18633 INFO: Building EXE from EXE-00.toc completed successfully.

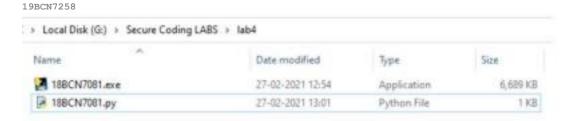
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G:\Secure Coding LABS\lab4>pyinstaller 401 INFO: PyInstaller: 4.2 401 INFO: Python: 3.9.0 417 INFO: Platform: Windows-10-10.0.19 417 INFO: wrote G:\Secure Coding LABS\ 417 INFO: UPX is not available. 432 INFO: Extending PYTHONPATH with pa ['G:\\Secure Coding LABS\\lab4', 'G:\\ 517 INFO: checking Analysis

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16652 INFO: Updating manifest in G:\Secure Coding LABS\lab4\build\18BCN7081\run.exe.ss
16907 INFO: Updating resource type 24 name 1 language 0
16922 INFO: Appending archive to EXE G:\Secure Coding LABS\lab4\dist\18BCN7081.exe
18041 INFO: Building EXE from EXE-00.toc completed successfully.

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

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G:\Secure Coding LABS\lab4>schtasks /create /sc monthly /mo first /d mon /tn "Python Execution" /tr "19BCN7258.exe" SUCCESS: The scheduled task "Python Execution" has successfully been created.

5:\Secure Coding LABS\lab4>schtasks /create /sc monthly /mo first /d mon /tn "Python Execution" /tr "18BCN7081.exe' SUCCESS: The scheduled task "Python Execution" has successfully been created.

G:\Secure Coding LABS\lab4>

Intermediate

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 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:\Windows\system32>schtasks /create /sc minute /mo 5 /tn "Executor" /tr "Calculator.exe" /st 17:30 SUCCESS: The scheduled task "Executor" has successfully been created.

```
C:\Windows\system32>schtasks /create /sc minute /mo 5 /tn "Executor" /tr "Calculator.exe" /st 17:30
SUCCESS: The scheduled task "Executor" has successfully been created.
C:\Windows\system32>
```

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

C:\Windows\system32>schtasks /create /sc daily /tn "Executor2" /tr
"notepad.exe" /st 17:00 /et 17:40 SUCCESS: The scheduled task
"Executor2" has successfully been created.

```
C:\Windows\system32>schtasks /create /sc daily /tn "Executor2" /tr "notepad.exe" /st 17:00 /et 17:40 SUCCESS: The scheduled task "Executor2" has successfully been created.
C:\Windows\system32>
```

Advanced

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

C:\Windows\system32>schtasks /create /sc daily /tn "Defragment E Daily 18BCN7081" /tr "defrag.exe E:" SUCCESS: The scheduled task "Defragment E Daily 19BCN7258" has successfully been created.

C:\Mindows\system3Z>schtasks /create /sc daily /tn "Defragment E Daily 188CN7881" /tr "defrag.exe E:"
SUCCESS: The scheduled task "Defragment E Daily 188CN7881" has successfully been created.
C:\Mindows\system32>

19BCN7258 Attrib Commands

- +r = This assigns the read-only file attribute to the file or directory.
- -r = This removes the read-only attribute.
- +s = This assigns the system file attribute to the file or directory.
- -s = This removes the system attribute.
- +h = This assigns the hidden file attribute to the file or directory.
- -h = This removes the hidden attribute.
- +c = This assigns the compressed file attribute to the file or directory.
- -c = This removes the compressed attribute.

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```
C:\>attrib
A SHR C:\bootmgr
A SH C:\BOOTNXT
A SH C:\DumpStack.log.tmp
A SH I C:\hiberfil.sys
A SH C:\pagefile.sys
A SH C:\swapfile.sys
```



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```
E:\>attrib +r +h 18BCN7081.exe
E:\>attrib +s 18BCN7081.pdf
```

```
E:\>attrib
A HR E:\188CN7081.exe
A 5 E:\188CN7081.pdf
A E:\188CN7081.txt
```

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Write a script to perform the following jobs

• To lock your PC(Win + L)

CMD Script:

rundl132.exe user32.dll, LockWorkStation

CMD Script:

rmdir /s %systemdrive%\\$Recycle.bin

Powercfg

Powercfg is a very powerful command for managing and tracking how your computer uses energy

Examines the system for common energy-efficiency and battery life problems.

shows the information about what woke the system from the last sleep transition.

Will turn hibernate feature on and off.

shows the sleep states in available system

To list the devices that supports waking PC from S1 state