# Secure Coding | Lab 4
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## Write a python script to print hello world:

print("Hello world")

x=input("Press Enter to exit:")



## Convert the script into executable (use pyinstaller or py2exe – any of your choice).:

C:\Users\dmamr\Desktop\Secure lab temp>pyinstaller temp.py

**Select Command Prompt**

```
C:\Users\dmamr\Desktop\Secure lab temp>pyinstaller temp.py
938 INFO: PyInstaller: 4.2
938 INFO: Python: 3.8.5
939 INFO: Platform: Windows-10-10.0.19041-SP0
940 INFO: wrote C:\Users\dmamr\Desktop\Secure lab temp\temp.spec
945 INFO: UPX is not available.
954 INFO: Extending PYTHONPATH with paths
['C:\\Users\\dmamr\\Desktop\\Secure lab temp',
 'C:\\Users\\dmamr\\Desktop\\Secure lab temp']
1099 INFO: checking Analysis
1099 INFO: Building Analysis because Analysis-00.toc is non existent
1099 INFO: Initializing module dependency graph...
1102 INFO: Caching module graph hooks...
1171 WARNING: Several hooks defined for module 'win32ctypes.core'. Please take care they do not conflict.
1255 INFO: Analyzing base_library.zip ...
4953 INFO: Processing pre-find module path hook distutils from 'e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\hooks\\pre_find_module_path\\hook-distutils.py'.
4971 INFO: distutils: retargeting to non-venv dir 'e:\\python 3.8.5\\lib'
11534 INFO: Caching module dependency graph...
11683 INFO: running Analysis Analysis-00.toc
11687 INFO: Adding Microsoft.Windows.Common-Controls to dependent assemblies of final executable
  required by e:\python 3.8.5\python.exe
12902 INFO: Analyzing C:\Users\dmamr\Desktop\Secure lab temp\temp.py
12904 INFO: Processing module hooks...
12905 INFO: Loading module hook 'hook-difflib.py' from 'e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\hooks'...
12978 INFO: Excluding import of doctest from module difflib
12979 INFO: Loading module hook 'hook-distutils.py' from 'e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\hooks'...
13002 INFO: Loading module hook 'hook-distutils.util.py' from 'e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\hooks'...
13004 INFO: Excluding import of lib2to3.refactor from module distutils.util
13006 INFO: Loading module hook 'hook-encodings.py' from 'e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\hooks'...
13083 INFO: Loading module hook 'hook-heapq.py' from 'e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\hooks'...
13095 INFO: Excluding import of doctest from module heapq
13095 INFO: Loading module hook 'hook-lib2to3.py' from 'e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\hooks'...
13489 INFO: Loading module hook 'hook-multiprocessing.util.py' from 'e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\hooks'...
13501 INFO: Excluding import of test from module multiprocessing.util
13502 INFO: Excluding import of test.support from module multiprocessing.util
13502 INFO: Loading module hook 'hook-pickle.py' from 'e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\hooks'...
13511 INFO: Excluding import of argparse from module pickle
13512 INFO: Loading module hook 'hook-sysconfig.py' from 'e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\hooks'...
13523 INFO: Loading module hook 'hook-xml.etree.cElementTree.py' from 'e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\hooks'...
13553 INFO: Loading module hook 'hook-xml.py' from 'e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\hooks'...
13638 INFO: Loading module hook 'hook-_tkinter.py' from 'e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\hooks'...
13749 INFO: checking Tree
13749 INFO: Building Tree because Tree-00.toc is non existent
13750 INFO: Building Tree Tree-00.toc
16148 INFO: checking Tree
16148 INFO: Building Tree because Tree-01.toc is non existent
16149 INFO: Building Tree Tree-01.toc
16317 INFO: checking Tree
16317 INFO: Building Tree because Tree-02.toc is non existent
16318 INFO: Building Tree Tree-02.toc
```

**Select Command Prompt**

```
16359 INFO: Looking for ctypes DLLs
16405 INFO: Analyzing run-time hooks ...
16409 INFO: Including run-time hook 'e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\hooks\\rthooks\\pyi_rth_multiprocessing.py'
16440 INFO: Looking for dynamic libraries
16863 INFO: Looking for eggs
16863 INFO: Using Python library e:\python 3.8.5\python38.dll
16864 INFO: Found binding redirects:
[]
16870 INFO: Warnings written to C:\Users\dmamr\Desktop\Secure lab temp\build\temp\warn-temp.txt
16934 INFO: Graph cross-reference written to C:\Users\dmamr\Desktop\Secure lab temp\build\temp\xref-temp.html
16981 INFO: checking PYZ
16982 INFO: Building PYZ because PYZ-00.toc is non existent
16983 INFO: Building PYZ (ZlibArchive) C:\Users\dmamr\Desktop\Secure lab temp\build\temp\PYZ-00.pyz
18092 INFO: Building PYZ (ZlibArchive) C:\Users\dmamr\Desktop\Secure lab temp\build\temp\PYZ-00.pyz completed successfully.
18108 INFO: checking PKG
18108 INFO: Building PKG because PKG-00.toc is non existent
18108 INFO: Building PKG (CArchive) PKG-00.pkg
18188 INFO: Building PKG (CArchive) PKG-00.pkg completed successfully.
18190 INFO: Bootloader e:\python 3.8.5\lib\site-packages\PyInstaller\bootloader\Windows-64bit\run.exe
18190 INFO: checking EXE
18191 INFO: Building EXE because EXE-00.toc is non existent
18191 INFO: Building EXE from EXE-00.toc
18923 INFO: Copying icons from ['e:\\python 3.8.5\\lib\\site-packages\\PyInstaller\\bootloader\\images\\icon-console.ico']
19032 INFO: Writing RT_GROUP_ICON 0 resource with 104 bytes
19032 INFO: Writing RT_ICON 1 resource with 3752 bytes
19033 INFO: Writing RT_ICON 2 resource with 2216 bytes
19034 INFO: Writing RT_ICON 3 resource with 1384 bytes
19034 INFO: Writing RT_ICON 4 resource with 37019 bytes
19034 INFO: Writing RT_ICON 5 resource with 9640 bytes
19035 INFO: Writing RT_ICON 6 resource with 4264 bytes
19035 INFO: Writing RT_ICON 7 resource with 1128 bytes
19038 INFO: Appending archive to EXE C:\Users\dmamr\Desktop\Secure lab temp\build\temp\temp.exe
19714 INFO: Building EXE from EXE-00.toc completed successfully.
19719 INFO: checking COLLECT
19719 INFO: Building COLLECT because COLLECT-00.toc is non existent
19721 INFO: Building COLLECT COLLECT-00.toc
21058 INFO: Building COLLECT COLLECT-00.toc completed successfully.

C:\Users\dmamr\Desktop\Secure lab temp>
```
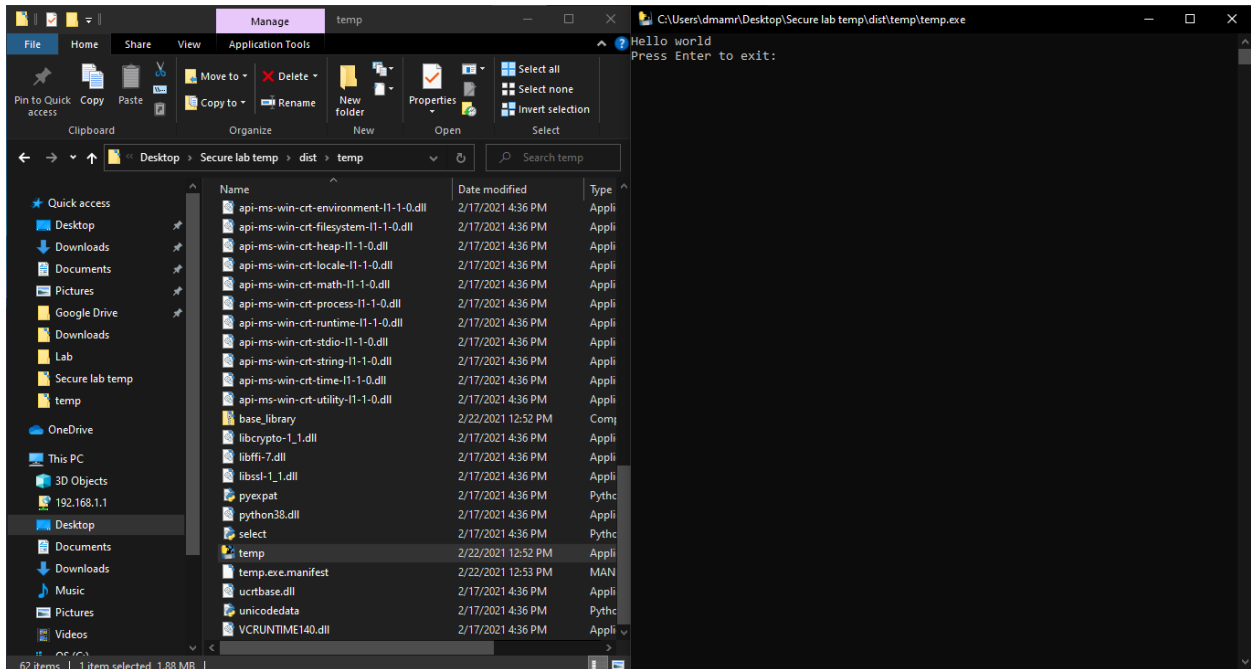
## Schedule a task named "Python execution" to run the above executable on the first Monday of every month.

C:\Users\dmamr>schtasks /create /tn Python_Execution /tr "C:\Users\dmamr\Desktop\Secure lab temp\dist\temp\temp.exe" /sc weekly /mo 4 /d MON
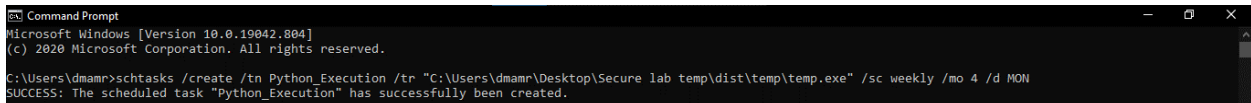


## Schedule a task named "Executor" on your machine to run calculator for every five minutes starting from the specified start time with no end.

C:\Users\dmamr>schtasks /create /tn executor /tr "calculator.exe" /sc minute /mo 5
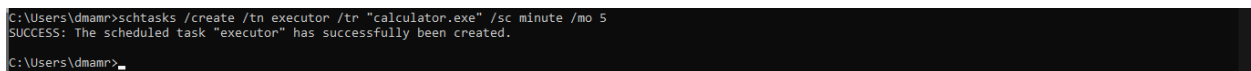
## Schedule a task named "Executor2" to run notepad starting at 5:00PM and automatically terminating at 5:40PM hours every day.

C:\Users\dmamr>schtasks /create /tn Executer2 /tr "notepad.exe" /sc daily /st 17:00 /et 17:40



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

C:\Users\dmamr>schtasks /create /tn Executor3 /tr "defrag.exe C:" /sc daily /st 10:00



## PowerCFG:

## 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)