

LAB-4 ASSIGNMENT

-J.S.R JAYANTH

-19BCE7170

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

Ans:

```
C:\>SCHTASKS /CREATE /SC minute /MO 5 /TN "Executer\Calculator TASK" /TR "C:\Windows\System32\calc.exe" /ST 00:04
```

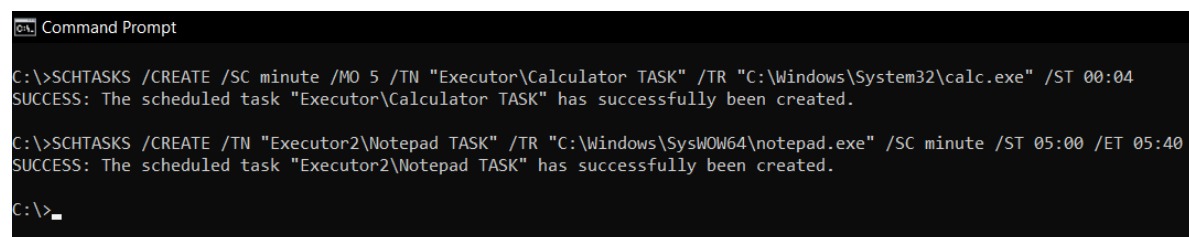
SUCCESS: The scheduled task "Executer\Calculator TASK" has successfully been created.

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

Ans:

```
C:\>SCHTASKS /CREATE /TN "Executer2\notepad TASK" /TR "C:\Windows\SysWOW64\notepad.exe" /SC minute /ST 05:00 /ET 05:40
```

SUCCESS: The scheduled task "Executer2\notepad TASK" has successfully been created.



```
Command Prompt

C:\>SCHTASKS /CREATE /SC minute /MO 5 /TN "Executer\Calculator TASK" /TR "C:\Windows\System32\calc.exe" /ST 00:04
SUCCESS: The scheduled task "Executer\Calculator TASK" has successfully been created.

C:\>SCHTASKS /CREATE /TN "Executer2\notepad TASK" /TR "C:\Windows\SysWOW64\notepad.exe" /SC minute /ST 05:00 /ET 05:40
SUCCESS: The scheduled task "Executer2\notepad TASK" has successfully been created.

C:\>
```

Q) Write a python script to print hello world. Convert the script into executable (use pyinstaller or py2exe – any of your choice).

Ans:

```
C:\Users\jammu\OneDrive\Desktop\Secure Coding\python>pyinstaller secure.py
```

```

C:\Users\jammu\OneDrive\Desktop\Secure Coding\python>pyinstaller secure.py
62 INFO: PyInstaller: 4.2
63 INFO: Python: 3.8.1
64 INFO: Platform: Windows-10-10.0.18362-SP0
65 INFO: wrote C:\Users\jammu\OneDrive\Desktop\Secure Coding\python\secure.spec
66 INFO: UPX is not available
67 INFO: Extending PYTHONPATH with paths
['C:\Users\jammu\OneDrive\Desktop\Secure Coding\python',
 'C:\Users\jammu\OneDrive\Desktop\Secure Coding\python']
74 INFO: checking Analysis
75 INFO: Building Analysis because Analysis-00.toc is not existent
76 INFO: Initializing module dependency graph...
77 INFO: Caching module graph hooks...
83 WARNING: Several hooks defined for module 'win32ctypes.core'. Please take care they do not conflict.
87 INFO: Analyzing base_library.zip ...
879 INFO: Processing pre-find-module-path hook distutils from 'c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\hooks\pre_find_module_path\hook-distutils.py'.
1470 INFO: distutils: retargeting to non-venv dir 'c:\users\jammu\appdata\local\programs\python\python38\lib'
1853 INFO: Caching module dependency graph...
1960 INFO: running Analysis Analysis-00.toc
1968 INFO: Adding Microsoft.Windows.Common-Controls to dependent assemblies of final executable
required by c:\users\jammu\appdata\local\programs\python\python38\python.exe
4026 INFO: Analyzing C:\Users\jammu\OneDrive\Desktop\Secure Coding\python\secure.py
4027 INFO: Processing module hooks...
4028 INFO: Loading module hook 'hook-difflib.py' from 'c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\hooks'...
4029 INFO: Excluding import of doctest from module difflib
4030 INFO: Loading module hook 'hook-distutils.py' from 'c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\hooks'...
4031 INFO: Loading module hook 'hook-distutils.util.py' from 'c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\hooks'...
4032 INFO: Excluding import of lib2to3.refactor from module distutils.util
4033 INFO: Loading module hook 'hook-encodings.py' from 'c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\hooks'...
4039 INFO: Loading module hook 'hook-heappq.py' from 'c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\hooks'...
4100 INFO: Loading module hook 'hook-lib2to3.py' from 'c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\hooks'...
4162 INFO: Loading module hook 'hook-multiprocessing.util.py' from 'c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\hooks'...
4163 INFO: Excluding import of test from module multiprocessing.util
4163 INFO: Excluding import of test.support from module multiprocessing.util
4164 INFO: Loading module hook 'hook-pickle.py' from 'c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\hooks'...
4164 INFO: Excluding import of argparse from module pickle
4165 INFO: Loading module hook 'hook-sysconfig.py' from 'c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\hooks'...
4166 INFO: Loading module hook 'hook-xml.etree.cElementTree.py' from 'c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\hooks'...
4166 INFO: Loading module hook 'hook-xml.py' from 'c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\hooks'...
4224 INFO: Loading module hook 'hook-tkinter.py' from 'c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\hooks'...
4345 INFO: checking Tree
4345 INFO: Building Tree because Tree-00.toc is not existent
4345 INFO: Building Tree Tree-00.toc
4349 INFO: checking Tree
4349 INFO: Building Tree because Tree-01.toc is not existent
4349 INFO: Building Tree Tree-01.toc
4349 INFO: checking Tree
4349 INFO: Building Tree because Tree-02.toc is not existent
4349 INFO: Building Tree Tree-02.toc
4354 INFO: Looking for ctypes DLLs
4387 INFO: Analyzing run-time hooks ...
4590 INFO: Including run-time hook 'c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\hooks\thooks\PyI_rth_multiprocessing.py'
4781 INFO: Looking for dynamic libraries
4781 INFO: Looking for eggs
4781 INFO: Using Python library c:\users\jammu\appdata\local\programs\python\python38\python38.dll
4793 INFO: Found binding redirects:
[]
4793 INFO: Warnings written to C:\Users\jammu\OneDrive\Desktop\Secure Coding\python\build\secure\warn-secure.txt
4828 INFO: Graph cross-reference written to C:\Users\jammu\OneDrive\Desktop\Secure Coding\python\build\secure\warn-secure.html
4845 INFO: checking PVZ
4846 INFO: Building PVZ because PVZ-00.toc is not existent
4846 INFO: Building PVZ (ZlibArchive) C:\Users\jammu\OneDrive\Desktop\Secure Coding\python\build\secure\PVZ-00.pyz
5230 INFO: Building PVZ (ZlibArchive) C:\Users\jammu\OneDrive\Desktop\Secure Coding\python\build\secure\PVZ-00.pyz completed successfully.
5230 INFO: checking PKG
5247 INFO: Building PKG because PKG-00.toc is not existent
5261 INFO: Building PKG (CArchive) PKG-00.pkg
5261 INFO: Building PKG (CArchive) PKG-00.pkg completed successfully.
5263 INFO: Bootloader C:\Users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\bootloader\Windows-64bit\run.exe
5263 INFO: checking EXE
5263 INFO: Building EXE because EXE-00.toc is not existent
5263 INFO: Building EXE from EXE-00.toc
5266 INFO: Copying icons from ['c:\users\jammu\appdata\local\programs\python\python38\lib\site-packages\PyInstaller\bootloader\images\icon-console.ico']
5267 INFO: Writing RT_GROUP_ICON 0 resource with 104 bytes
5267 INFO: Writing RT_ICON 1 resource with 3752 bytes
5267 INFO: Writing RT_ICON 2 resource with 2216 bytes
5267 INFO: Writing RT_ICON 3 resource with 1384 bytes
5268 INFO: Writing RT_ICON 4 resource with 37019 bytes
5268 INFO: Writing RT_ICON 5 resource with 9640 bytes
5268 INFO: Writing RT_ICON 6 resource with 4264 bytes
5269 INFO: Writing RT_ICON 7 resource with 1128 bytes
5273 INFO: Appending archive to EXE C:\Users\jammu\OneDrive\Desktop\Secure Coding\python\build\secure\secure.exe
5280 INFO: Building EXE from EXE-00.toc completed successfully.
5281 INFO: checking COLLECT
5281 INFO: Building COLLECT because COLLECT-00.toc is not existent
5284 INFO: Building COLLECT COLLECT-00.toc
5413 INFO: Building COLLECT COLLECT-00.toc completed successfully.

C:\Users\jammu\OneDrive\Desktop\Secure Coding\python>

```

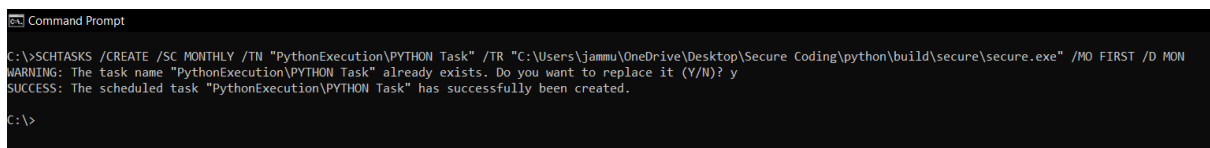
Q) Schedule a task named “Python execution” to run the above executable on the first Monday of every month.

Ans:

```
C:\>SCHTASKS /CREATE /SC MONTHLY /TN "PythonExecution\PYTHON Task" /TR "C:\Users\jammu\OneDrive\Desktop\Secure Coding\python\build\secure\secure.exe" /MO FIRST /D MON
```

WARNING: The task name "PythonExecution\PYTHON Task" already exists. Do you want to replace it (Y/N)? y

SUCCESS: The scheduled task "PythonExecution\PYTHON Task" has successfully been created.



```
Command Prompt

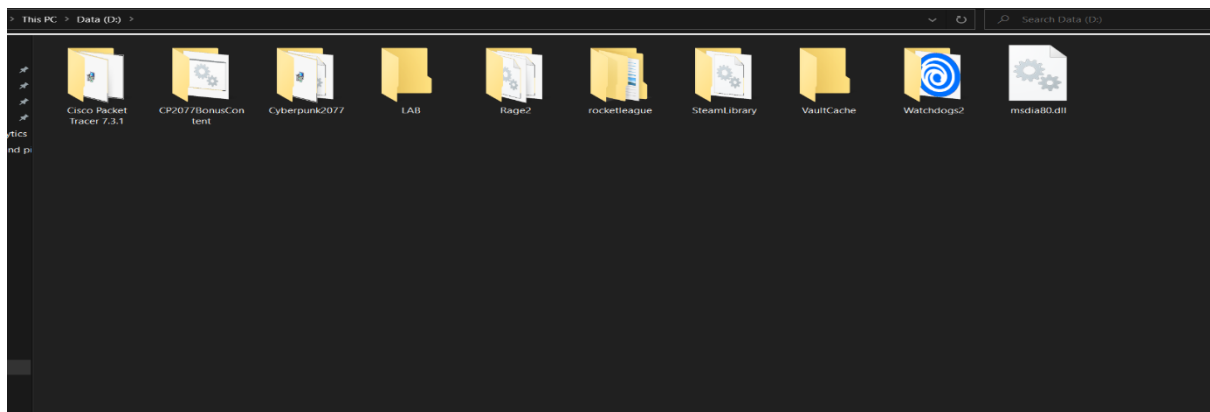
C:\>SCHTASKS /CREATE /SC MONTHLY /TN "PythonExecution\PYTHON Task" /TR "C:\Users\jammu\OneDrive\Desktop\Secure Coding\python\build\secure\secure.exe" /MO FIRST /D MON
WARNING: The task name "PythonExecution\PYTHON Task" already exists. Do you want to replace it (Y/N)? y
SUCCESS: The scheduled task "PythonExecution\PYTHON Task" has successfully been created.

C:\>
```

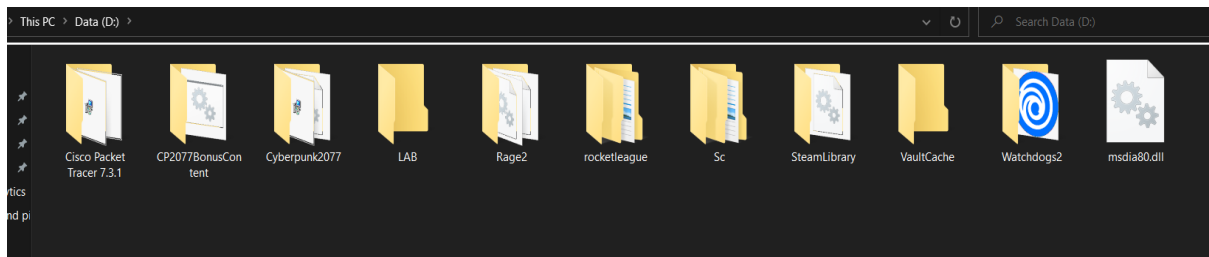
Q) Attrib command

Ans:

```
C:\Users\jammu>attrib +h +s +r /S /D D:\Sc
```



```
C:\Users\jammu>attrib -h -s -r /S /D D:\Sc
```



Q) Powercfg

Ans:

```
C:\Windows\system32>powercfg /energy
```

Enabling tracing for 60 seconds...

Observing system behavior...

Analyzing trace data...

Analysis complete.

Energy efficiency problems were found.

6 Errors

11 Warnings

58 Informational

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

```
C:\Windows\system32>powercfg /lastwake
```

Wake History Count - 1

Wake History [0]

Wake Source Count - 0

```
C:\Windows\system32>powercfg /hibernate on
```

```
C:\Windows\system32>powercfg /hibernate off
```

```
C:\Windows\system32>powercfg /a
```

The following sleep states are available on this system:

Standby (S3)

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.

Hibernate

Hibernation has not been enabled.

Standby (S0 Low Power Idle)

The system firmware does not support this standby state.

Hybrid Sleep

Hibernation is not available.

Fast Startup

Hibernation is not available.

```
C:\Windows\system32>powercfg /devicequery s1_supported
```

Invalid Parameters -- try "/" for help

```
C:\Windows\system32>powercfg /devicequery s1_supported
```

Intel(R) Display Audio

Intel(R) XTU Component Device
Root Print Queue
Speakers (Realtek(R) Audio)
Volume Manager
Bluetooth Device (RFCOMM Protocol TDI)
DTS Audio Hardware Support Application
HID-compliant fido
Intel(R) XTU Component Device (001)
WAN Miniport (PPPOE)
Intel(R) Graphics Control Panel
NovaPlay Hands-Free AG Audio
Microsoft Basic Display Driver
Pixel 3a XL Hands-Free HF Audio
Intel(R) XTU Component Device (002)
Microsoft Print to PDF
USB Input Device
Famatech RadminVPN Ethernet Adapter
Intel(R) XTU Component Device (003)
WAN Miniport (PPTP)
HID-compliant vendor-defined device
Intel(R) iCLS Client
Microsoft Hyper-V Virtualization Infrastructure Driver
Microsoft IPP Class Driver
WAN Miniport (IKEv2)
Composite Bus Enumerator
Microsoft Virtual Drive Enumerator
Microsoft Wi-Fi Direct Virtual Adapter
Microsoft Wi-Fi Direct Virtual Adapter #2
Microsoft Storage Spaces Controller
HID-compliant mouse

USB Composite Device (001)
Killer Networking Software
Intel(R) Management and Security Application Local Management
DTS APO4x Service Component
Realtek Hardware Support Application
USB Input Device (001)
UMBus Root Bus Enumerator
[TV] Samsung Q80 Series (55)
Charge Arbitration Driver
Bluetooth Device (Personal Area Network)
ACPI x64-based PC
WAN Miniport (Network Monitor)
WAN Miniport (IP)
Intel(R) XTU Component Device (004)
Realtek Audio Universal Service
HID-compliant vendor-defined device (001)
DTS Audio Effects Component
Microsoft Basic Render Driver
Pixel 3a XL (001)
WAN Miniport (SSTP)
USB Root Hub (USB 3.0)
HID-compliant consumer control device (002)
Fax
Microsoft XPS Document Writer
OneNote for Windows 10
Intel(R) XTU Component Device (005)
Generic PnP Monitor
Intel(R) XTU Component Device (006)
NVIDIA Virtual Audio Device (Wave Extensible) (WDM)
NVVHCI Enumerator

NvModuleTracker Device
Microsoft Bluetooth Enumerator
Intel(R) XTU Component Device (007)
Intel(R) Dynamic Application Loader Host Interface
NDIS Virtual Network Adapter Enumerator
Intel(R) Wireless Bluetooth(R)
Realtek Audio Effects Component
Microsoft Bluetooth LE Enumerator
Killer Networking Software (001)
Intel(R) Graphics Command Center
[TV] Samsung Q80 Series (55) (001)
USB Root Hub (USB 3.0) (001)
PINTOO (Copy 1)
Microsoft System Management BIOS Driver
Microphone Array (Realtek(R) Audio)
HID-compliant system controller
Plug and Play Software Device Enumerator
GoTrustID FIDO HID Device
Remote Desktop Device Redirector Bus
WAN Miniport (IPv6)
HID Keyboard Device
WAN Miniport (L2TP)


```
Administrator: Command Prompt

C:\Windows\system32>powercfg /energy
Enabling tracing for 60 seconds...
Observing system behavior...
Analyzing trace data...
Analysis complete.

Energy efficiency problems were found.

6 Errors
11 Warnings
58 Informational

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

C:\Windows\system32>powercfg /lastwake
Wake History Count - 1
Wake History [0]
Wake Source Count - 0

C:\Windows\system32>powercfg /hibernate on

C:\Windows\system32>powercfg /hibernate off

C:\Windows\system32>powercfg /a
The following sleep states are available on this system:
Standby (S3)

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.

Hibernate
Hibernation has not been enabled.

Standby (S0 Low Power Idle)
The system firmware does not support this standby state.

Hybrid Sleep
Hibernation is not available.

Fast Startup
Hibernation is not available.
```

```
Administrator: Command Prompt

C:\Windows\system32>powercfg /devicequery s1_supported
Invalid Parameters -- try "/?" for help

C:\Windows\system32>powercfg /devicequery s1_supported
Intel(R) Display Audio
Intel(R) XTU Component Device
Root Print Queue
Speakers (Realtek(R) Audio)
Volume Manager
Bluetooth Device (RFCOMM Protocol TDI)
DTS Audio Hardware Support Application
HID-compliant fido
Intel(R) XTU Component Device (001)
WAN Miniport (PPPOE)
Intel(R) Graphics Control Panel
NovaPlay Hands-Free AG Audio
Microsoft Basic Display Driver
Pixel 3a XL Hands-Free HF Audio
Intel(R) XTU Component Device (002)
Microsoft Print to PDF
USB Input Device
Famattech Realtek(R) Ethernet Adapter
Intel(R) XTU Component Device (003)
WAN Miniport (PPTP)
HID-compliant vendor-defined device
Intel(R) iCLS Client
Microsoft Hyper-V Virtualization Infrastructure Driver
Microsoft IPP Class Driver
WAN Miniport (IKEv2)
Composite Bus Enumerator
Microsoft Virtual Drive Enumerator
Microsoft Wi-Fi Direct Virtual Adapter
Microsoft Wi-Fi Direct Virtual Adapter #2
Microsoft Storage Spaces Controller
HID-compliant mouse
USB Composite Device (001)
Killer Networking Software
Intel(R) Management and Security Application Local Management
DTS AP04x Service Component
Realtek Hardware Support Application
USB Input Device (001)
USB Root Bus Enumerator
[TV] Samsung Q80 Series (55)
Charge Arbitration Driver
Bluetooth Device (Personal Area Network)
KCP1 x64-based PC
WAN Miniport (Network Monitor)
WAN Miniport (IP)
Intel(R) XTU Component Device (004)
Realtek Audio Universal Service
```

```
Administrator: Command Prompt
ACPI x64-based PC
WAN Miniport (Network Monitor)
WAN Miniport (IP)
Intel(R) XTU Component Device (004)
Realtek Audio Universal Service
HID-compliant vendor-defined device (001)
DTS Audio Effects Component
Microsoft Basic Render Driver
Pixel 3a XL (001)
WAN Miniport (SSIP)
USB Root Hub (USB 3.0)
HID-compliant consumer control device (002)
Fax
Microsoft XPS Document Writer
OneNote for Windows 10
Intel(R) XTU Component Device (005)
Generic PnP Monitor
Intel(R) XTU Component Device (006)
NVIDIA Virtual Audio Device (Wave Extensible) (WDM)
NVMMCI Enumerator
NVModuleTracker Device
Microsoft Bluetooth Enumerator
Intel(R) XTU Component Device (007)
Intel(R) Dynamic Application Loader Host Interface
NDIS Virtual Network Adapter Enumerator
Intel(R) Wireless Bluetooth(R)
Realtek Audio Effects Component
Microsoft Bluetooth LE Enumerator
Killer Networking Software (001)
Intel(R) Graphics Command Center
[TV] Samsung Q80 Series (55) (001)
USB Root Hub (USB 3.0) (001)
PINTOO (Copy 1)
Microsoft System Management BIOS Driver
Microphone Array (Realtek(R) Audio)
HID-compliant system controller
Plug and Play Software Device Enumerator
GoTrustID FIDO HID Device
Remote Desktop Device Redirector Bus
WAN Miniport (IPv6)
HID Keyboard Device
WAN Miniport (L2TP)

C:\Windows\system32>
```

Q) Write a script to perform the following jobs

- **To lock your PC (Win + L)**
- **To clear your recycle bin**

Ans:

C:\Users\jammu>Rundll32.exe user32.dll,LockWorkStation

C:\Windows\system32>rmdir /s %systemdrive%\\$Recycle.bin

C:\\$Recycle.bin, Are you sure (Y/N)? y