

Secure Coding (CSE 2010)

LAB Experiment: 4

Done by,

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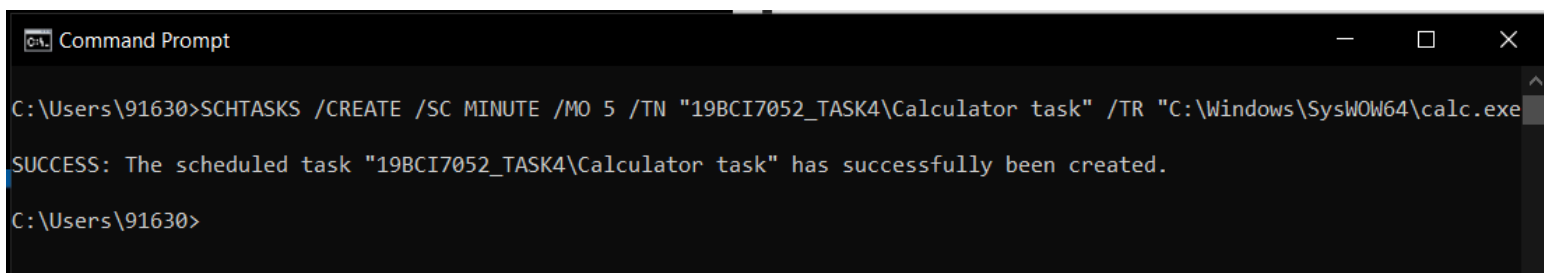
Reg.No:19BCI7052

SLOT: L23+L24

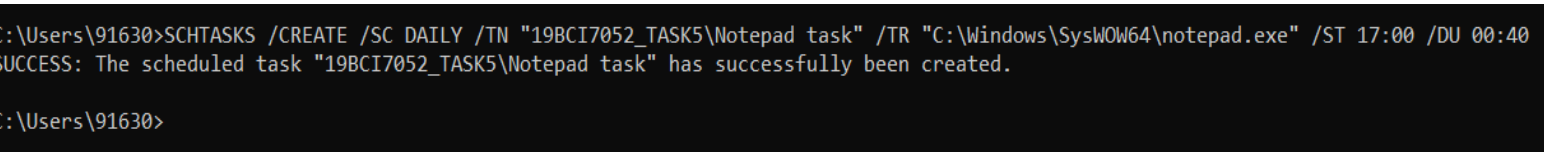
Question 1:

Intermediate

- Schedule a task named "Executer" on your machine to run calculator for every five minutes starting from the specified start time with no end
- Schedule a task named "Executer2" to run notepad starting at 5:00PM and automatically terminating at 5:40PM hours every day



```
Command Prompt
C:\Users\91630>SHTASKS /CREATE /SC MINUTE /MO 5 /TN "19BCI7052_TASK4\Calculator task" /TR "C:\Windows\SysWOW64\calc.exe"
SUCCESS: The scheduled task "19BCI7052_TASK4\Calculator task" has successfully been created.
C:\Users\91630>
```



```
C:\Users\91630>SHTASKS /CREATE /SC DAILY /TN "19BCI7052_TASK5\notepad task" /TR "C:\Windows\SysWOW64\notepad.exe" /ST 17:00 /DU 00:40
SUCCESS: The scheduled task "19BCI7052_TASK5\notepad task" has successfully been created.
C:\Users\91630>
```

Question 2:

Mid-level

- Write a python script to print hello world.
- Convert the script into executable (use pyinstaller or py2exe – any of your choice).
- Schedule a task named "Python execution" to run the above executable on the first Monday of every month.

Sol:

1. Creating an .exe file:

Command Prompt

```
D:\SecCod_LAB\lab4>python hello.py
Hello world!!!

D:\SecCod_LAB\lab4>python setup.py install
running install
running build
running install_egg_info
Removing C:\python\Lib\site-packages\UNKNOWN-0.0.0-py3.6.egg-info
Writing C:\python\Lib\site-packages\UNKNOWN-0.0.0-py3.6.egg-info

D:\SecCod_LAB\lab4>python setup.py py2exe
running py2exe

  1 missing Modules
  -----
? readline                                imported from cmd, code, pdb
Building 'dist\hello.exe'.
Building shared code archive 'dist\library.zip'.
Copy c:\python\python36.dll to dist
Copy C:\python\DLLs\select.pyd to dist\select.pyd
Copy C:\python\DLLs\pyexpat.pyd to dist\pyexpat.pyd
Copy C:\python\DLLs\unicodedata.pyd to dist\unicodedata.pyd
Copy C:\python\DLLs\_socket.pyd to dist\_socket.pyd
Copy C:\python\DLLs\_bz2.pyd to dist\_bz2.pyd
Copy C:\python\DLLs\_lzma.pyd to dist\_lzma.pyd
Copy C:\python\DLLs\_hashlib.pyd to dist\_hashlib.pyd
Copy C:\python\DLLs\_ssl.pyd to dist\_ssl.pyd
Copy C:\python\DLLs\_ctypes.pyd to dist\_ctypes.pyd

D:\SecCod_LAB\lab4>cd dist

D:\SecCod_LAB\lab4\dist>hello.exe
Hello world!!!

D:\SecCod_LAB\lab4\dist>
```

2. Scheduling the task:

```
D:\SecCod_LAB\lab4\dist>SCHTASKS /CREATE /SC MONTHLY /TN "19BCI7052_TASK5\PYTHON EXECUTION" /TR "D:\SecCod_LAB\lab4\dist\hello.exe" /MO FIRST /D MON
SUCCESS: The scheduled task "19BCI7052_TASK5\PYTHON EXECUTION" has successfully been created.
```

```
D:\SecCod_LAB\lab4\dist>
```

Note : The statement is:

```
SCHTASKS /CREATE /SC MONTHLY /TN "19BCI7052_TASK5\PYTHON EXECUTION" /TR  
"D:\SecCod_LAB\lab4\dist\hello.exe" /MO FIRST /D MON
```

SUCCESS: The scheduled task "19BCI7052_TASK5\PYTHON EXECUTION" has successfully been created.

hello.py:

```
print("Hello world!!!)
```

setup.py:

```
from distutils.core import setup
```

```
import py2exe
```

```
setup(console=['hello.py'])
```

Question 3:

Powercfg

- Powercfg is a very powerful command for managing and tracking how your computer uses energy.
- > powercfg /energy
- > Powercfg /lastwake
- > powercfg /hibernate on
- > powercfg /hibernate off
- > powercfg /a
- powercfg /devicequery s1_supported

Administrator: Command Prompt

Microsoft Windows [Version 10.0.19042.804]

(c) 2020 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.

9 Errors

11 Warnings

63 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
Microsoft Bluetooth LE Enumerator
USB Root Hub (USB 3.0)
USB Root Hub (USB 3.0) (001)
Root Print Queue
DTS Audio Hardware Support Application
Volume Manager
OnePlus Bullets Wireless Z Hands-Free AG Audio
WAN Miniport (PPPOE)
Microsoft Basic Display Driver
Realtek Audio Universal Service
AMD High Definition Audio Device
Headphones (Realtek(R) Audio)
OneNote for Windows 10
Kaspersky Security Data Escort Adapter
WAN Miniport (PPTP)
Microsoft Wi-Fi Direct Virtual Adapter #3
Microsoft Wi-Fi Direct Virtual Adapter #4
Microsoft Hyper-V Virtualization Infrastructure Driver
AMD-UWP Version Control
WAN Miniport (IKEv2)
Composite Bus Enumerator
Microsoft Virtual Drive Enumerator
Microsoft Storage Spaces Controller
Microsoft Kernel Debug Network Adapter
DTS AP04x Service Component
Microsoft Bluetooth Enumerator
Microphone (Realtek(R) Audio)
HID-compliant mouse
USB Input Device
Microphone Array (Realtek(R) Audio)
Fax
Bluetooth Device (RFCOMM Protocol TDI)
Realtek Asio Component
```

Question 4:

Attrib command:

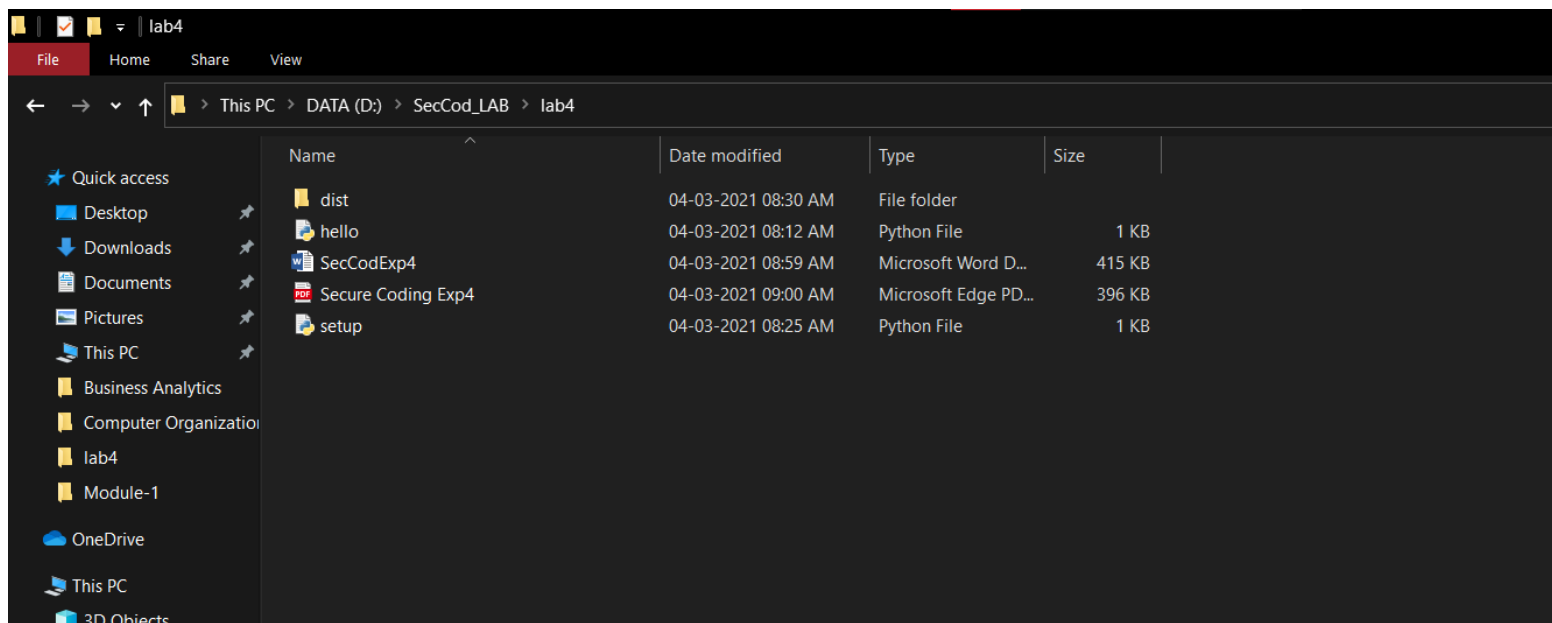
```
Command Prompt

C:\Users\91630>attrib +h +s +r /S /D D:\SecCod_LAB\lab4\attrib_demo

C:\Users\91630>attrib -h -s -r /S /D D:\SecCod_LAB\lab4\attrib_demo

C:\Users\91630>
```

BEFORE:



Name	Date modified	Type	Size
dist	04-03-2021 08:30 AM	File folder	
hello	04-03-2021 08:12 AM	Python File	1 KB
SecCodExp4	04-03-2021 08:59 AM	Microsoft Word D...	415 KB
Secure Coding Exp4	04-03-2021 09:00 AM	Microsoft Edge PD...	396 KB
setup	04-03-2021 08:25 AM	Python File	1 KB

AFTER:

