

Lab-4

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18BCN7130

L23+L24

Mid-Level

- Write a python script to print hello world.

Python script :

```
C:\Users\MOUNIKA\Secure Coding>python lab4_18BCN7130.py  
hello world 18BCN7130
```

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

```
print('hello world 18BCN7081')
```

C:\Secure Coding>**pyinstaller lab4_18BCN7130.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\18BCN7130.spec
417 INFO: UPX is not available.
432 INFO: Extending PYTHONPATH with paths
['C:\\Secure Coding LAB']
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..
```

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

SUCCESS: The scheduled task "Python Execution" has successfully been created.

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

```
C:\Windows\system32>schtasks /create /sc minute /mo 5 /tn "Executer" /tr "Calculator.exe" /st 17:30
```

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

```
C:\Windows\system32>schtasks /create /sc minute /mo 5 /tn "Executer" /tr "Calculator.exe" /st 17:30
SUCCESS: The scheduled task "Executer" 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 "Executer2" /tr "notepad.exe" /st 17:00 /et 17:40
```

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

```
C:\Windows\system32>schtasks /create /sc daily /tn "Executer2" /tr "notepad.exe" /st 17:00 /et 17:40
SUCCESS: The scheduled task "Executer2" has successfully been created.
C:\Windows\system32>
```

Advanced

- Schedule a task named "Logger" to log your internet explorer activity to a separate text file.
- 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 18BCN7081" has successfully  
been created.
```

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

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.

```
C:\>attrib  
A                C:\.log  
A SH             C:\DumpStack.log.tmp  
A SH             C:\pagefile.sys  
A SH             C:\swapfile.sys
```

Write a script to perform the following jobs

- To clear your recycle bin

CMD Script:

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

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

Powercfg

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

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

Energy efficiency problems were found.

10 Errors
6 Warnings
58 Informational

See C:\windows\system32\energy-report.html for more details.
C:\windows\system32>_
```

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

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

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

```
C:\windows\system32>powercfg /hibernate on  
C:\windows\system32>powercfg /hibernate off
```

Will turn hibernate feature on and 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.  
The hypervisor does not support this standby state.  
  
Fast Startup  
Hibernation is not available.
```

shows the sleep states in available system

```
C:\windows\system32>powercfg /devicequery s1_supported  
Microsoft XPS Document Writer  
USB Root Hub (USB 3.0)  
Intel(R) iCLS Client  
Root Print Queue  
Volume Manager  
Realtek Bluetooth 4.2 Adapter  
Intel(R) Dynamic Application Loader Host Interface  
Generic PnP Monitor  
WAN Miniport (PPPOE)  
OneNote  
Microsoft Hyper-V Virtual Machine Bus Provider  
Realtek Audio Effects Component  
Microsoft Basic Display Driver  
Generic software component  
VirtualBox Host-Only Ethernet Adapter  
Npcap Loopback Adapter  
WAN Miniport (PPTP)  
Microsoft Wi-Fi Direct Virtual Adapter  
Microsoft Wi-Fi Direct Virtual Adapter #2  
Microsoft Hyper-V Virtualization Infrastructure Driver  
Microphone Array (Realtek(R) Audio)  
WAN Miniport (IKEv2)  
Composite Bus Enumerator  
Microsoft Virtual Drive Enumerator  
Microsoft Storage Spaces Controller  
Stereo Mix (Realtek(R) Audio)  
Microsoft Kernel Debug Network Adapter  
Microsoft Print to PDF  
USB Root Bus Enumerator  
Charge Arbitration Driver  
Fax  
ACPI x64-based PC  
Intel(R) iCLS Client (001)
```

```
Intel(R) iCLS Client (001)
Generic software component (001)
ELAN Touchpad Component
WAN Miniport (Network Monitor)
WAN Miniport (IP)
Microsoft Hyper-V PCI Server
Microsoft Basic Render Driver
WAN Miniport (SSTP)
Intel(R) Dynamic Application Loader Host Interface (001)
OneNote (Desktop)
Speaker (Realtek(R) Audio)
Intel(R) Graphics Command Center
Generic software component (002)
Microsoft Hyper-V Virtual Disk Server
NDIS Virtual Network Adapter Enumerator
HP Audio Hardware Support Application
Sound Research Audio Effects Component
OneNote for Windows 10
Realtek Audio Universal Service
Microsoft System Management BIOS Driver
Intel(R) Graphics Control Panel
HP Device Health Service
Plug and Play Software Device Enumerator
Remote Desktop Device Redirector Bus
WAN Miniport (IPv6)
HP Application Enabling Services
WAN Miniport (L2TP)
```

To list the devices that supports waking PC from S1 state

