

SECURE CODING

LAB-4

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18BCN7025

1)write a python script to print hello world

```
print('hello world ')
```

```
C:\Users\Ruthvika\PycharmProjects\myproject>18bce7340.py  
hello world
```

Intermediate

- 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:\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 "Executor2" 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 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>
```

Write a script to perform the following jobs

- To lock your PC(Win + L)

CMD Script:

```
rundll32.exe user32.dll, LockWorkStation
```

- 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.

3 Errors
4 Warnings
60 Informational

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

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 - 1
Wake Source [0]
Type: Fixed Feature
Power Button
```

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.  
  
Fast Startup  
Hibernation is not available.
```

shows the sleep states in available system

```
C:\Windows\system32>powercfg /devicequery s1_supported
Root Print Queue
Volume Manager
WAN Miniport (PPPOE)
OneNote (Desktop)
Generic software component
Microsoft Basic Display Driver
Generic PnP Monitor
Microsoft Print to PDF
WAN Miniport (PPTP)
Microsoft Hyper-V Virtualization Infrastructure Driver
USB Root Hub (USB 3.0)
WAN Miniport (IKEv2)
Composite Bus Enumerator
Microsoft Virtual Drive Enumerator
Microsoft Storage Spaces Controller
Microsoft Kernel Debug Network Adapter
Fax
OneNote for Windows 10
Stereo Mix (Realtek High Definition Audio)
UMBus Root Bus Enumerator
Charge Arbitration Driver
ACPI x64-based PC
WAN Miniport (Network Monitor)
WAN Miniport (IP)
Microsoft XPS Document Writer
Microsoft Basic Render Driver
USB Root Hub (USB 3.0) (001)
WAN Miniport (SSTP)
Realtek Bluetooth 4.2 Adapter
Microsoft Wi-Fi Direct Virtual Adapter
Microsoft Wi-Fi Direct Virtual Adapter #2
AMD High Definition Audio Device
NDIS Virtual Network Adapter Enumerator
Speaker/Headphone (Realtek High Definition Audio)
Generic USB Hub
Synaptics Service binaries
Microphone Array (Realtek High Definition Audio)
Microsoft System Management BIOS Driver
Plug and Play Software Device Enumerator
Remote Desktop Device Redirector Bus
WAN Miniport (IPv6)
```

To list the devices that supports waking PC from S1 state