

Secure Coding Lab-4

18BCE7015
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Mid-Level

- Write a python script to print hello world.

Python script :

```
print('hello world 18BCE7015')
```

```
Command Prompt
Microsoft Windows [Version 10.0.19041.804]
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C:\Users\vital>cd desktop

C:\Users\vital\Desktop>python p.py
Hello world 18BCE7015

C:\Users\vital\Desktop>
```

- 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.

```
schtasks /create /sc monthly /mo first /d mon /tn "Python
Execution" /tr "p.py"
```

```
C:\Users\vital\Desktop>schtasks /create /sc monthly /mo first /d mon /tn "Python Execution" /tr "p.py"  
SUCCESS: The scheduled task "Python Execution" has successfully been created.
```

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:\Users\vital\Desktop>schtasks /create /sc minute /mo 5 /tn "Executor" /tr "calculator.exe" /st 17:30  
WARNING: The task name "Executor" already exists. Do you want to replace it (Y/N)? y  
SUCCESS: The scheduled task "Executor" has successfully been created.
```

- 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>
```

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:\Users\vital>schtasks /create /sc daily /tn "Defragment E Daily 18BCE7015" /tr "defrag.exe E:"  
SUCCESS: The scheduled task "Defragment E Daily 18BCE7015" has successfully been created.
```

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:\Users\vital>attrib
A          C:\Users\vital\.appletviewer
A          C:\Users\vital\.bash_history
A          C:\Users\vital\.condarc
A          C:\Users\vital\.packettracer
A H I      C:\Users\vital\NTUSER.DAT
A SH       C:\Users\vital\ntuser.dat.LOG1
A SH       C:\Users\vital\ntuser.dat.LOG2
A SH       C:\Users\vital\NTUSER.DAT{8029cd98-da63-11ea-801c-a8068fb5d12d}.TxR.0.regtrans-ms
A SH       C:\Users\vital\NTUSER.DAT{8029cd98-da63-11ea-801c-a8068fb5d12d}.TxR.1.regtrans-ms
A SH       C:\Users\vital\NTUSER.DAT{8029cd98-da63-11ea-801c-a8068fb5d12d}.TxR.2.regtrans-ms
A SH       C:\Users\vital\NTUSER.DAT{8029cd98-da63-11ea-801c-a8068fb5d12d}.TxR.blf
A SH       C:\Users\vital\NTUSER.DAT{8029cd99-da63-11ea-801c-a8068fb5d12d}.TM.blf
A SH       C:\Users\vital\NTUSER.DAT{8029cd99-da63-11ea-801c-a8068fb5d12d}.TMContainer000000000000000001.reg
trans-ms
A SH       C:\Users\vital\NTUSER.DAT{8029cd99-da63-11ea-801c-a8068fb5d12d}.TMContainer000000000000000002.reg
trans-ms
SH         C:\Users\vital\ntuser.ini
```

Write a script to perform the following jobs

- To lock your PC(Win + L)

CMD Script:

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

```
C:\Users\vital>rundll32.exe user32.dll, LockWorkStation  
C:\Users\vital>
```

- To clear your recycle bin

CMD Script:

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

```
C:\Users\vital>rmdir /s %systemdrive%\$Recycle.bin
C:\$Recycle.bin, Are you sure (Y/N)? n
```

Powercfg

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

```
C:\> Administrator: Command Prompt
Microsoft Windows [Version 10.0.19041.804]
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C:\WINDOWS\system32>powercfg/ energy
Invalid Parameters -- try "/" for help

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

Energy efficiency problems were found.

17 Errors
3 Warnings
56 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 - 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 (S0 Low Power Idle) Network Disconnected  
  
The following sleep states are not available on this system:  
    Standby (S1)  
        The system firmware does not support this standby state.  
        This standby state is disabled when S0 low power idle is supported.  
  
    Standby (S2)  
        The system firmware does not support this standby state.  
        This standby state is disabled when S0 low power idle is supported.  
  
    Standby (S3)  
        This standby state is disabled when S0 low power idle is supported.  
  
    Hibernate  
        Hibernation has not been enabled.  
  
    Hybrid Sleep  
        Standby (S3) is not available.  
        Hibernation is not available.  
  
    Fast Startup  
        Hibernation is not available.  
  
    Standby (S0 Low Power Idle) Network Connected  
        Connectivity in standby is not supported.
```

shows the sleep states in available system


```
C:\WINDOWS\system32>powercfg /devicequery s1_supported
Intel(R) Graphics Control Panel
Microphone (Realtek(R) Audio)
Intel(R) Software Guard Extensions Software
Intel(R) Dynamic Application Loader Host Interface
Root Print Queue
Volume Manager
HID-compliant consumer control device
WAN Miniport (PPPOE)
Microsoft Basic Display Driver
OneNote
VirtualBox Host-Only Ethernet Adapter
HID Keyboard Device
Intel(R) Management and Security Application Local Management
WAN Miniport (PPTP)
Microsoft Hyper-V Virtualization Infrastructure Driver
Intel(R) Display Audio
Realtek Audio Universal Service
WAN Miniport (IKEv2)
Composite Bus Enumerator
Microsoft Virtual Drive Enumerator
Microsoft Storage Spaces Controller
Microsoft Print to PDF
HID-compliant system controller (002)
Microsoft Kernel Debug Network Adapter
Waves Audio Effects Component
UMBus Root Bus Enumerator
Charge Arbitration Driver
ACPI x64-based PC
WAN Miniport (Network Monitor)
WAN Miniport (IP)
HID-compliant vendor-defined device (001)
Realtek Asio Component
Intel(R) Pinning Shell Extensions
Realtek Audio Effects Component
Microsoft Basic Render Driver
WAN Miniport (SSTP)
OneNote (001)
Microsoft Wi-Fi Direct Virtual Adapter
Microsoft Wi-Fi Direct Virtual Adapter #2
Microsoft XPS Document Writer
USB Input Device
HID-compliant vendor-defined device (002)
USB Composite Device (005)
Intel(R) Graphics Command Center
NVIDIA Virtual Audio Device (Wave Extensible) (WDM)
NVVHCI Enumerator
NvModuleTracker Device
Generic PnP Monitor (001)
USB Root Hub (USB 3.0)
```

To list the devices that supports waking PC from S1 state