SECURE CODING LAB-4

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Slot-L39+L40

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.

1)print("Hello World")

2)

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

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- Schedule a task named "Executer2" to run notepad starting at 5:00PM and automatically terminating at 5:40PM hours every day

-

```
C:\Users\NISHANK>Schtasks /create /SC MINUTE /MO 5 /TN Executer /TR \WindowsApps\calculator.exe /ST 12:00
SUCCESS: The scheduled task "Executer" has successfully been created.

C:\Users\NISHANK>Schtasks /create /SC MINUTE /MO 5 /TN Executer2 /TR \WindowsApps\notepad.exe /ST 17:00 /E
T 17:40
SUCCESS: The scheduled task "Executer2" has successfully been created.
```

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\NISHANK>Schtasks /create /SC DAILY /TN Logger /TR \WindowsApps\internet_explorer.exe
SUCCESS: The scheduled task "Logger" has successfully been created.

C:\Users\NISHANK>Schtasks /create /SC DAILY /TN Defragment /TR Defrag.exe /ST 10:00
SUCCESS: The scheduled task "Defragment" has successfully been created.
```

ATTRIBUTE COMMAND

```
C:\Users\NISHANK>ATTRIB
A                    C:\Users\NISHANK\.packettracer
A                    C:\Users\NISHANK\fipid eq 4828
A                    C:\Users\NISHANK\fipid eq 50000
A                    C:\Users\NISHANK\fistatus eq not responding
A                    C:\Users\NISHANK\netdata.txt
A    H    I          C:\Users\NISHANK\NTUSER.DAT
A   SH               C:\Users\NISHANK\ntuser.dat.LOG1
A   SH               C:\Users\NISHANK\ntuser.dat.LOG2
A   SH               C:\Users\NISHANK\NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TM.blf
A   SH               C:\Users\NISHANK\NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer00000000
000000000001.regtrans-ms
A   SH               C:\Users\NISHANK\NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer00000000
000000000002.regtrans-ms
    SH               C:\Users\NISHANK\ntuser.ini
A                    C:\Users\NISHANK\types.txt
```

Write a script to perform the following jobs

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

TO LOCK YOUR PC CODE:-

```java
import java.io.*;

public class Lock
{
    public static void main(String[] args) throws IOException
    {
        Runtime rt= Runtime.getRuntime();
        Process pr = rt.exec("C:\\Windows\\System32\\rundll32.exe user32.dll,LockWorkStation");
    }
}
```

TO CLEAR YOUR RECYCLE BIN CODE:-

POWERCFG(Powercfg)

Powercfg /energy

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

Energy efficiency problems were found.

8 Errors
13 Warnings
49 Informational

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

Powercfg /lastwake

```
C:\WINDOWS\system32>powercfg /lastwake
Wake History Count - 1
Wake History [0]
  Wake Source Count - 1
  Wake Source [0]
    Type: Fixed Feature
    Power Button
```

Powercfg /hibernate on

Powercfg /hibernate off

Powercfg /a

```
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.
        The hypervisor does not support this standby state.

    Fast Startup
        Hibernation is not available.
```

Powercfg /devicequery s1_supported

```
C:\WINDOWS\system32>powercfg /devicequery s1_supported
OneNote for Windows 10
HP ePrint + JetAdvantage
Root Print Queue
Microphone Array (Realtek High Definition Audio)
Volume Manager
Fax
WAN Miniport (PPPOE)
Intel(R) Dynamic Application Loader Host Interface
Microsoft Hyper-V Virtual Machine Bus Provider
Microsoft Basic Display Driver
VirtualBox Host-Only Ethernet Adapter
HP Radio Manager Device
WAN Miniport (PPTP)
Microsoft Hyper-V Virtualization Infrastructure Driver
WAN Miniport (IKEv2)
Composite Bus Enumerator
Microsoft Virtual Drive Enumerator
Microsoft Storage Spaces Controller
Microsoft Kernel Debug Network Adapter
Microsoft Wi-Fi Direct Virtual Adapter
Microsoft Wi-Fi Direct Virtual Adapter #2
Microsoft Print to PDF
UMBus Root Bus Enumerator
Charge Arbitration Driver
USB Root Hub (USB 3.0)
Generic PnP Monitor (001)
ACPI x64-based PC
WAN Miniport (Network Monitor)
WAN Miniport (IP)
Speaker/Headphone (Realtek High Definition Audio)
Microsoft Hyper-V PCI Server
Microsoft Basic Render Driver
KD-43X7500F
WAN Miniport (SSTP)
Intel(R) iCLS Client
Intel(R) Wireless Bluetooth(R)
Generic software component
Microsoft Hyper-V Virtual Disk Server
NVIDIA Virtual Audio Device (Wave Extensible) (WDM)
NVVHCI Enumerator
DAEMON Tools Lite Virtual USB Bus
NDIS Virtual Network Adapter Enumerator
OneNote (Desktop)
Microsoft System Management BIOS Driver
Microsoft XPS Document Writer
Plug and Play Software Device Enumerator
```