SECURE CODING CSE2010

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Scheduled Tasks and Power Options

QUESTION

Write a python script to print hello world.

CODE

print("hello world")

OUTPUT

```
print.py

1 print ("hello world")

2

Python - print.py:2 

hello world
[Finished in 0.19s]
```

QUESTION

Convert the script into executable (use <u>pyinstaller</u> or py2exe – any of vour choice).

CODE

pyinstaller --onefile -w 'print.py'

OUTPUT

```
Fig. 6.08 two sections and Pulsages Rely print ("hello world")

1 print ("hello world")

2 print ("hello world")

3 print ("hello world")

2 print ("hello world")

3 print ("hello world")

3 print ("hello world")

4 print ("hello world")

4 print ("hello world")

4 print ("hello world")

5 prin
```

QUESTION

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

CODE

```
schtasks /create /sc monthly /mo first /d mon /tn
"Mytasks\python_execution" /tr
"c:\users\romap\documents\sem6\secure_lab\new
folder\dist\print.exe"
```

C:\Users\romap>schtasks /create /sc monthly /mo first /d mon /tn "Mytasks\python_execution" /tr "c:\users\romap\document s\sem6\secure_lab\new folder\dist\print.exe"
SUCCESS: The scheduled task "Mytasks\python_execution" has successfully been created.
C:\Users\romap>

QUESTION

Schedule a task named "Executer" on your machine to run calculator for every five minutes starting from the specified start time with no end

CODE

```
schtasks /create /sc minute /mo 5 /st 11:17 /tn
"Mytasks\Executor" /tr "c:\windows\system32\calc.exe"
```

OUTPUT

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

CODE

```
schtasks /create /sc daily /st 17:00 /et 17:40 /tn
"Mytasks\Executor2" /tr "c:\windows\system32\notepad.exe"
```

OUTPUT

QUESTION

Schedule a task named "Logger" to log your internet explorer activity to a separate text file.

CODE

OUTPUT

QUESTION

Schedule a task to defragment any of your local disk daily at 10AM

CODE

```
schtasks /create /sc daily /st 10:00 /tn
"MyTasks\Defragment" /tr " C:\WINDOWS\SYSTEM32\defrag.exe
C:"
```

OUTPUT

```
C:\Users\romap>schtasks /create /sc daily /st 10:00 /tn "MyTasks\Defragment" /tr " C:\WINDOWS\SYSTEM32\defrag.exe C:"
SUCCESS: The scheduled task "MyTasks\Defragment" has successfully been created.
C:\Users\romap>
```

QUESTION

Attrib command

CODE

```
attrib +h +s +r /S /D hidden \rightarrow to hide the files attrib -h -s -r /S /D hidden \rightarrow to show the files attrib -h -s -r /S /D E:/*.* \rightarrow shows all files in the drive, regardless of the extension
```

```
C:\Users\romap\Documents\Sem6\Secure_lab>attrib /?
Displays or changes file attributes.
ATTRIB [+R | -R] [+A | -A] [+S | -S] [+H | -H] [+O | -O] [+I | -I] [+X | -X] [+P | -P] [+U | -U]
       [drive:][path][filename] [/S [/D]] [/L]
     Sets an attribute.
     Clears an attribute.
Read-only file attribute.
     Archive file attribute.
     System file attribute.
     Hidden file attribute.
     Offline attribute.
     Not content indexed file attribute.
     No scrub file attribute.
     Integrity attribute.
     Pinned attribute.
    Unpinned attribute.
SMR Blob attribute.
 [drive:][path][filename]
 Specifies a file or files for attrib to process.

/S Processes matching files in the current folder
     and all subfolders.
 /D Processes folders as well.
/L Work on the attributes of the Symbolic Link versus
     the target of the Symbolic Link
C:\Users\romap\Documents\Sem6\Secure_lab>attrib +h +s +r /S /D hidden
C:\Users\romap\Documents\Sem6\Secure_lab>_
C:\Users\romap\Documents\Sem6\Secure_lab>attrib -h -s -r /S /D hidden
C:\Users\romap\Documents\Sem6\Secure lab>
```

Powercfg

CODE

```
powercfg /lastwake
powercfg /a
powercfg /energy
```

powercfg /devicequery all_devices \rightarrow Returns a list of devices that meet the specified criteria. all_devices Returns all devices present in the system

```
C:\Users\romap\Documents\Sem6\Secure_lab>powercfg /batteryreport
Battery life report saved to file path C:\Users\romap\Documents\Sem6\Secure_lab\battery-report.html.
C:\WINDOWS\system32>powercfg /lastwake
Wake History Count - 1
Wake History [0]
 Wake Source Count - 0
 C:\WINDOWS\system32>powercfg /a
The following sleep states are available on this system:
    Standby (S3)
    Hibernate
    Hybrid Sleep
    Fast Startup
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.
    Standby (S0 Low Power Idle)
        The system firmware does not support this standby state.
C:\WINDOWS\system32>
C:\WINDOWS\system32>powercfg /energy
Enabling tracing for 60 seconds...
Observing system behavior...
Analyzing trace data...
Analysis complete.
Energy efficiency problems were found.
7 Errors
31 Warnings
47 Informational
See C:\WINDOWS\system32\energy-report.html for more details.
C:\WINDOWS\system32>
```

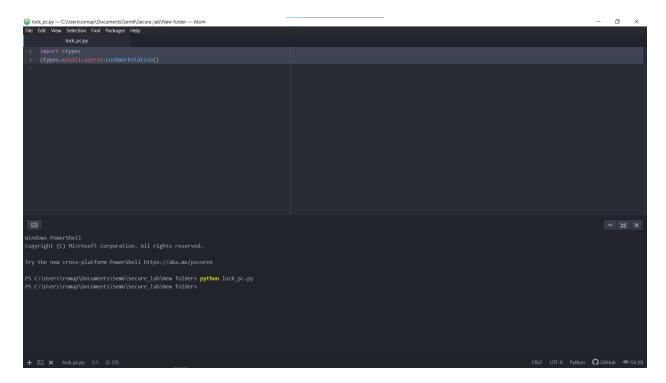
```
C:\WINDOWS\system32>powercfg /devicequery all_devices
Mobile Intel(R) Processor Family I/O PCI Express Root Port #6 - 9D15
Stereo Mix (Realtek High Definition Audio)
Motherboard resources
Motherboard resources (001)
Motherboard resources (002)
MIDI function
Personal Area Network Service
Microsoft ACPI-Compliant Control Method Battery
ACPI Fan
ACPI Fan (001)
ACPI Fan (002)
ACPI Fan (003)
ACPI Fan (004)
ACPI Processor Aggregator
Intel(R) Display Audio
Synaptics SMBus TouchPad
Root Print Queue
PCI standard host CPU bridge
Volume Manager
Realtek Bluetooth 4.2 Adapter
Trusted Platform Module 2.0
```

Write a script to perform the following jobs

• To lock your PC (Win + L)

CODE

```
import ctypes
ctypes.windll.user32.LockWorkStation()
```

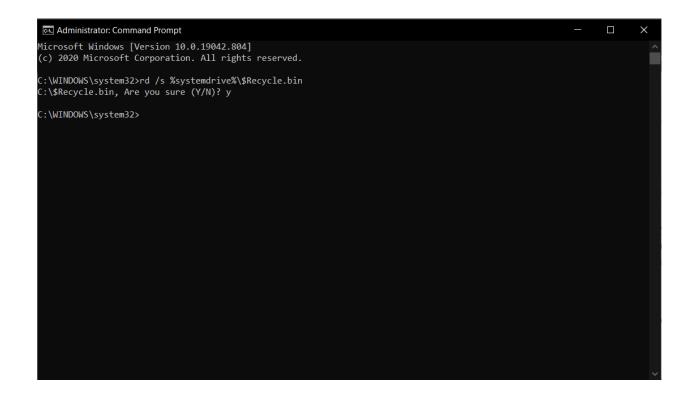


Locks the PC

• To clear your recycle bin

CODE

rd /s %systemdrive%\\$Recycle.bin



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