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QUESTION:

Mid-level

- Write a python script to print hello world.
- Convert the script into executable (use <u>pyinstaller</u> or py2exe any of your choice).
- Schedule a task named "Python execution" to run the above executable on the first Monday of every month.

Python script named Hello.py and conversion to exe file:

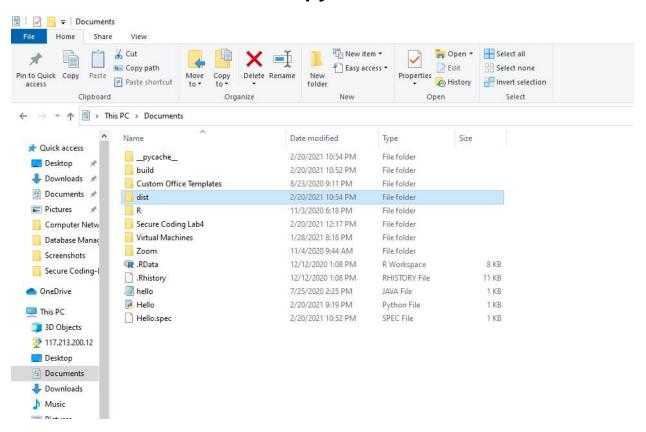
C:\Users\Lenovo\Documents> python Hello.py Hello World

Conversion to exe:

Command used-pyinstaller --onefile Hello.py

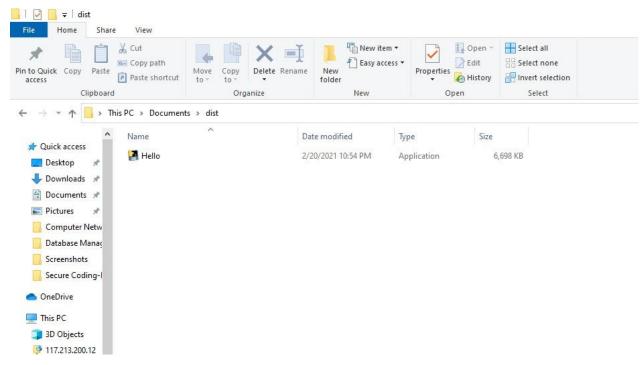
```
Command Prompt
 :\Users\Lenovo\Documents> python Hello.py
Hello World
C:\Users\Lenovo\Documents>pyinstaller --onefile Hello.py
8590 INFO: PyInstaller: 4.2
8591 INFO: Pýthon: 3.9.2
8617 INFO: Platform: Windows-10-10.0.18362-SPO
8642 INFO: wrote C:\Users\Lenovo\Documents\Hello.spec
9014 INFO: UPX is not available.
19011 INFO: Extending PYTHONPATH with paths
 'C:\\Users\\Lenovo\\Documents', 'C:\\Users\\Lenovo\\Documents']
21417 INFO: checking Analysis
21419 INFO: Building Analysis because Analysis-00.toc is non existent
21420 INFO: Initializing module dependency graph...
21588 INFO: Caching module graph hooks...
22032 WARNING: Several hooks defined for module 'win32ctypes.core'. Please take care they do not conflict.
23202 INFO: Analyzing base_library.zip ...
37819 INFO: Processing pre-find module path hook distutils from 'c:\\python\\python392\\lib\\site-packages\\P
37879 INFO: distutils: retargeting to non-venv dir 'c:\\python\\python392\\lib'
57043 INFO: Caching module dependency graph...
58249 INFO: running Analysis Analysis-00.toc
58403 INFO: Adding Microsoft.Windows.Common-Controls to dependent assemblies of final executable
required by c:\python\python392\python.exe
58763 WARNING: lib not found: api-ms-win-core-path-l1-1-0.dll dependency of c:\python\python392\python39.dll
```

Documents folder with Hello.py file



Executable file of Hello.py:

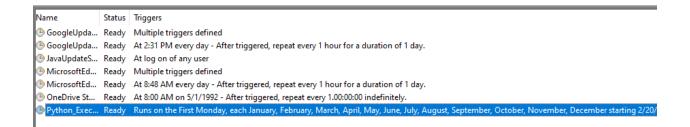
Present in dist folder



Scheduling task Python_Execution to run on first Monday of every month:

C:\Windows\system32>SCHTASKS /Create /SC monthly /mo FIRST /D Mon /TN Python_Execution /TR C:\Users\Lenovo\Documents\dist\Hello.exe /ST 11:00 /ET 12:00 SUCCESS: The scheduled task "Python_Execution" has successfully been created.

C:\Windows\system32>

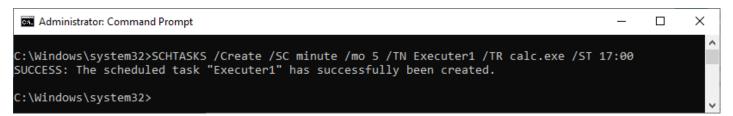


QUESTION:

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

Creation of Executer1 task:



Verification:

Name	Status	Triggers	Next Run Time	Last Run Time	Last Run Re
Executer1	Ready	At 5:00 PM on 2/20/2021 - After triggered, repeat every 5 minutes indefinitely.	2/20/2021 11:55:00 PM	2/20/2021 11:50:02 PM	The operation
(Google Upda	Ready	Multiple triggers defined	2/21/2021 2:31:18 PM	2/20/2021 7:32:25 PM	The operation
GoogleUpda	Ready	At 2:31 PM every day - After triggered, repeat every 1 hour for a duration of 1 day.	2/21/2021 12:31:18 AM	2/20/2021 11:32:26 PM	The operation
④ JavaUpdateS	Ready	At log on of any user		2/20/2021 7:26:48 PM	(0xFFFFFFF
MicrosoftEd	Ready	Multiple triggers defined	2/21/2021 9:18:29 AM	2/20/2021 7:24:48 PM	The operation
MicrosoftEd	Ready	At 8:48 AM every day - After triggered, repeat every 1 hour for a duration of 1 day.	2/21/2021 12:48:29 AM	2/20/2021 11:48:30 PM	The operation
OneDrive St	Ready	At 8:00 AM on 5/1/1992 - After triggered, repeat every 1.00:00:00 indefinitely.	2/21/2021 8:12:27 AM	2/20/2021 9:04:12 AM	(0x8004EE04

Creation of Executer2 task:



Verification:

Name	Status	Triggers	Next Run Time	Las
Executer2	Ready	At 5:00 PM every day - After triggered, repeat every 10 minutes indefinitely. Trigger expires at 2/20/2021 5:40:00 PM.		11/
🕒 GoogleUpda	Ready	Multiple triggers defined	2/21/2021 2:31:18 PM	2/2
🕒 GoogleUpda	Ready	At 2:31 PM every day - After triggered, repeat every 1 hour for a duration of 1 day.	2/21/2021 12:31:18 AM	2/2
④ JavaUpdateS	Ready	At log on of any user		2/2
MicrosoftEd	Ready	Multiple triggers defined	2/21/2021 9:18:29 AM	2/2
MicrosoftEd	Ready	At 8:48 AM every day - After triggered, repeat every 1 hour for a duration of 1 day.	2/20/2021 11:48:29 PM	2/2
(OneDrive St	Ready	At 8:00 AM on 5/1/1992 - After triggered, repeat every 1.00:00:00 indefinitely.	2/21/2021 11:16:51 AM	2/2

QUESTION:

Advanced

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



Verification:

Name	Status	Triggers	Next Run Time	Last Run Time	Last Run R
(l) diskdefrag	Ready	At 10:00 AM every day	2/22/2021 10:00:00 AM	11/30/1999 12:00:00 AM	The task h
GoogleUpda	Ready	Multiple triggers defined	2/22/2021 2:31:18 PM	2/21/2021 4:08:21 PM	The operat
GoogleUpda	Ready	At 2:31 PM every day - After triggered, repeat every 1 hour for a duration of 1 day.	2/21/2021 4:31:18 PM	2/21/2021 3:04:17 PM	The operat
JavaUpdateS	Ready	At log on of any user		2/21/2021 4:10:21 PM	(0xFFFFFF
MicrosoftEd	Ready	Multiple triggers defined	2/22/2021 9:18:29 AM	2/21/2021 4:08:21 PM	The operat
MicrosoftEd	Ready	At 8:48 AM every day - After triggered, repeat every 1 hour for a duration of 1 day.	2/21/2021 4:48:29 PM	2/21/2021 3:04:17 PM	The operat
(OneDrive St	Ready	At 8:00 AM on 5/1/1992 - After triggered, repeat every 1.00:00:00 indefinitely.	2/22/2021 9:28:01 AM	2/21/2021 3:04:18 PM	(0x8004EE

QUESTION:

Powercfg

- Powercfg is a very powerful command for managing and tracking how your computer uses energy.
- >powercfg /energy
- > Powercfg /lastwake
- >powercfg /hibernate on
- > powercfg /hibernate off
- > powercfg /a
- powercfg /devicequery s1_supported

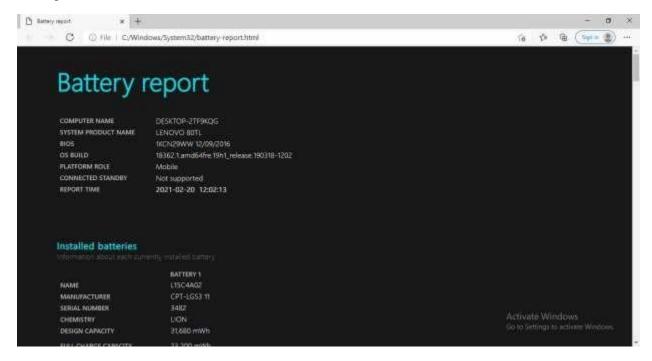
Outputs:

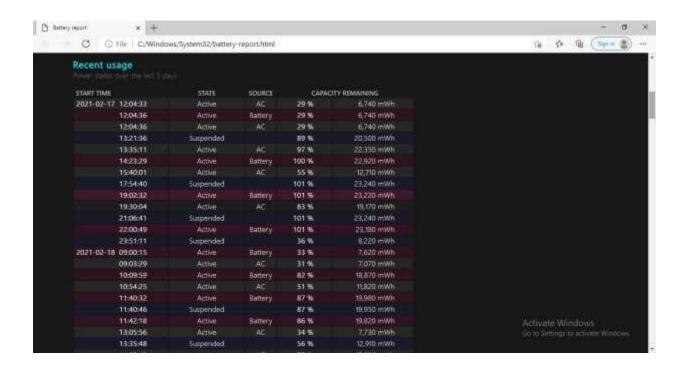
1)powercfg/BATTERYREPORT

```
Microsoft Windows [Version 10.0.18363.1379]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Windows\system32>powercfg/BATTERYREPORT
Battery life report saved to file path C:\Windows\system32\battery-report.html.

C:\Windows\system32>
```





b) 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
C:\Windows\system32>
```

c)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.

1 Errors
7 Warnings
31 Informational

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

C:\Windows\system32>_
```

d) 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.
        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.
C:\Windows\system32>
```

e)powercfg /devicequery s1_supported

Select Administrator: Command Prompt

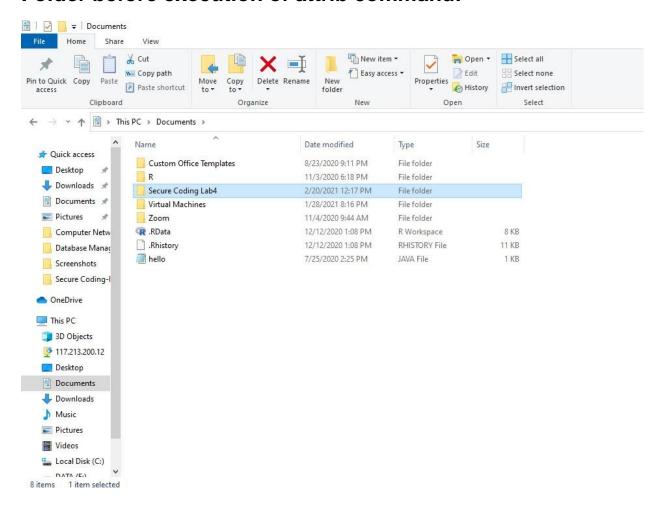
```
C:\Windows\system32>powercfg /devicequery s1 supported
Realtek Bluetooth Adapter
Root Print Queue
Volume Manager
WAN Miniport (PPPOE)
Microsoft Basic Display Driver
VMware Virtual Ethernet Adapter for VMnet1
VMware Virtual Ethernet Adapter for VMnet8
WAN Miniport (PPTP)
Speakers (2- Realtek High Definition Audio)
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
Send To OneNote 2013
Microphone (2- Realtek High Definition Audio)
UMBus Root Bus Enumerator
Charge Arbitration Driver
ACPI x64-based PC
WAN Miniport (Network Monitor)
WAN Miniport (IP)
Generic PnP Monitor
Microsoft Print to PDF
Microsoft Basic Render Driver
WAN Miniport (SSTP)
Microsoft XPS Document Writer
VMware VMCI Host Device
NDIS Virtual Network Adapter Enumerator
Realtek USB 2.0 Card Reader
Microsoft System Management BIOS Driver
Plug and Play Software Device Enumerator
OneNote for Windows 10
USB Root Hub (USB 3.0)
Remote Desktop Device Redirector Bus
WAN Miniport (IPv6)
WAN Miniport (L2TP)
C:\Windows\system32>
```

QUESTION:

Attrib command implementation:

Here a folder named Secure Coding Lab4 is created. The folder is being hid using attrib command

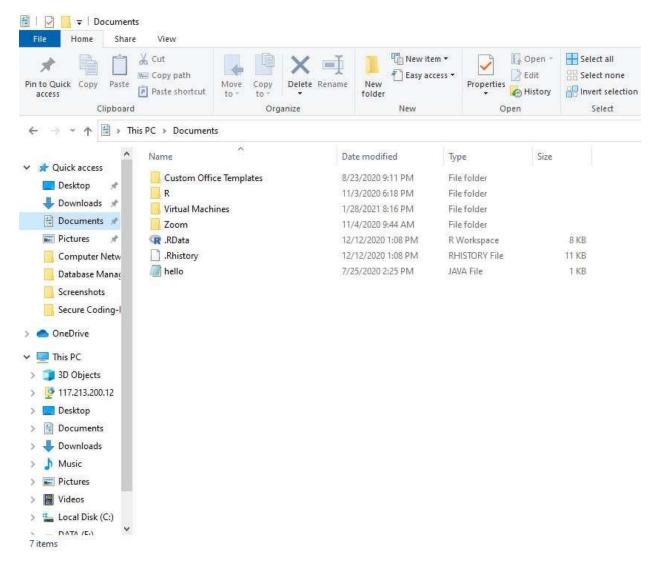
Folder before execution of attrib command:



Execution:

C:\Windows\system32>attrib +h +s +r /S /D "C:\Users\Lenovo\Documents\Secure Coding Lab4"
C:\Windows\system32>

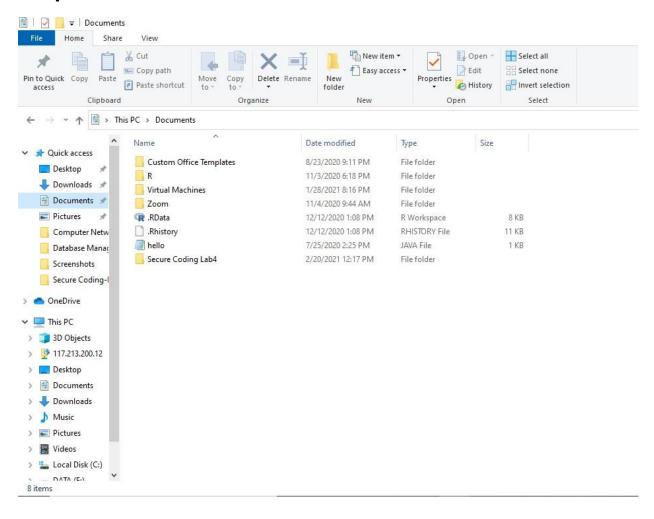
Output after executing this command:



Retrieving back the

folder: Command-

C:\Windows\system32>attrib -h -s -r /S /D "C:\Users\Lenovo\Documents\Secure Coding Lab4" C:\Windows\system32>_



Question:

Write a script to perform the following jobs

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

a) Script to lock your pc:

Lock.java

```
import java.io.*;

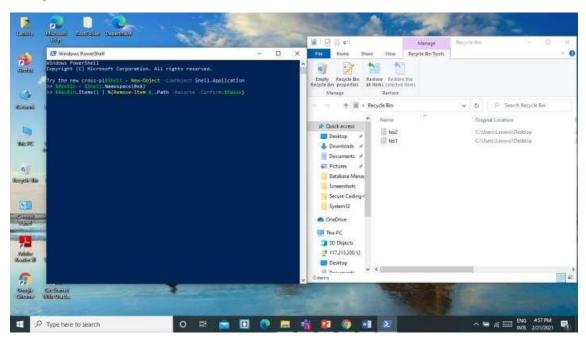
public class Lock
{
  public static void main(String args[])throws IOException
  {
    Runtime run = Runtime.getRuntime();
    Process pro =
    run.exec("C:\\Windows\\System32\\rundl32.exe
    user32.dll,LockWorkStation");
  }
}
```

```
C:\Users\Lenovo\Desktop>javac Lock.java
C:\Users\Lenovo\Desktop>java Lock
C:\Users\Lenovo\Desktop>
```

Execute this and we will be able to lock our PC.

b) Script to clear your recycle bin:

```
$Shell = New-Object -ComObject Shell.Application
$RecBin = $Shell.Namespace(0xA)
$RecBin.Items() | %{Remove-Item $_-Path -Recurse -Confirm:$false}
```



After executing:

