Secure Coding

Lab 4

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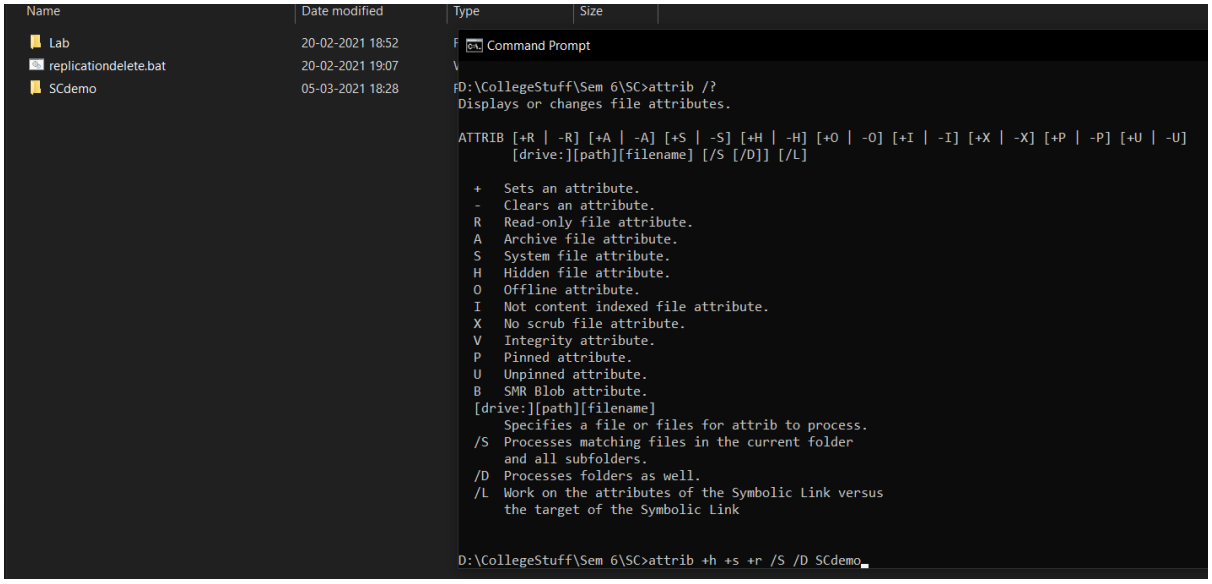
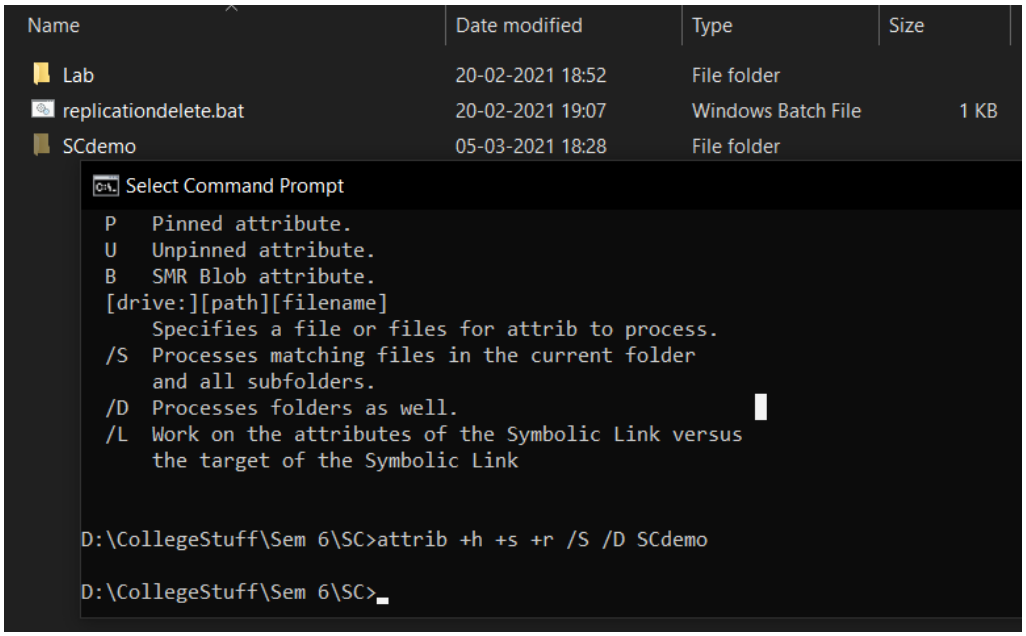
1. Attrib command:

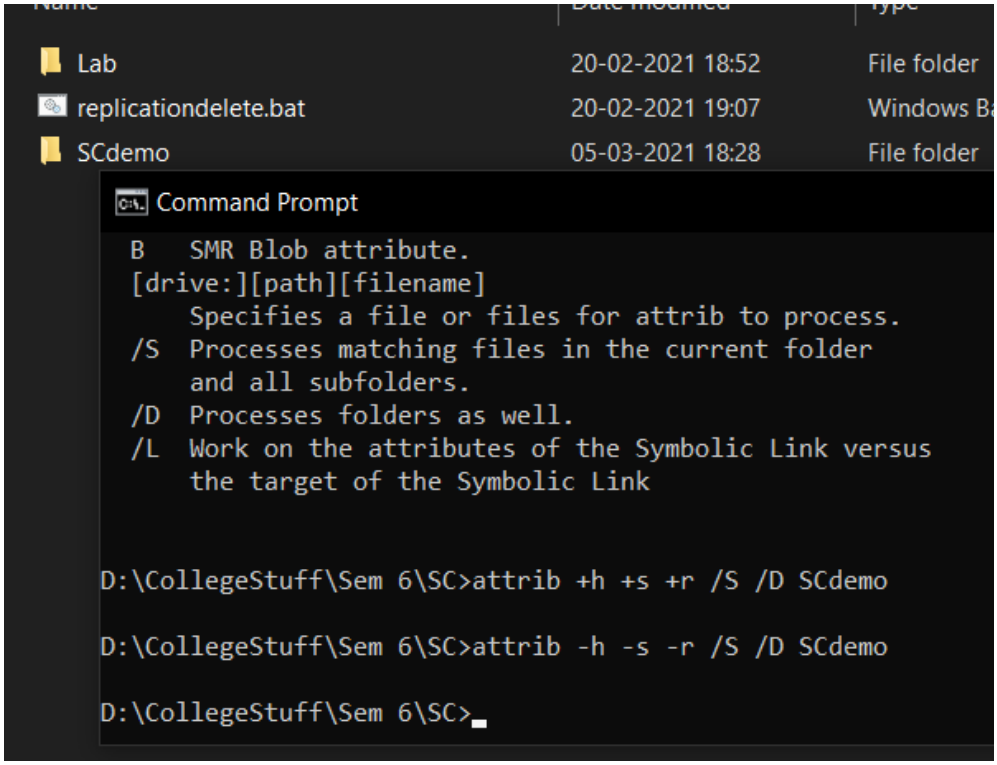


Hiding folder:

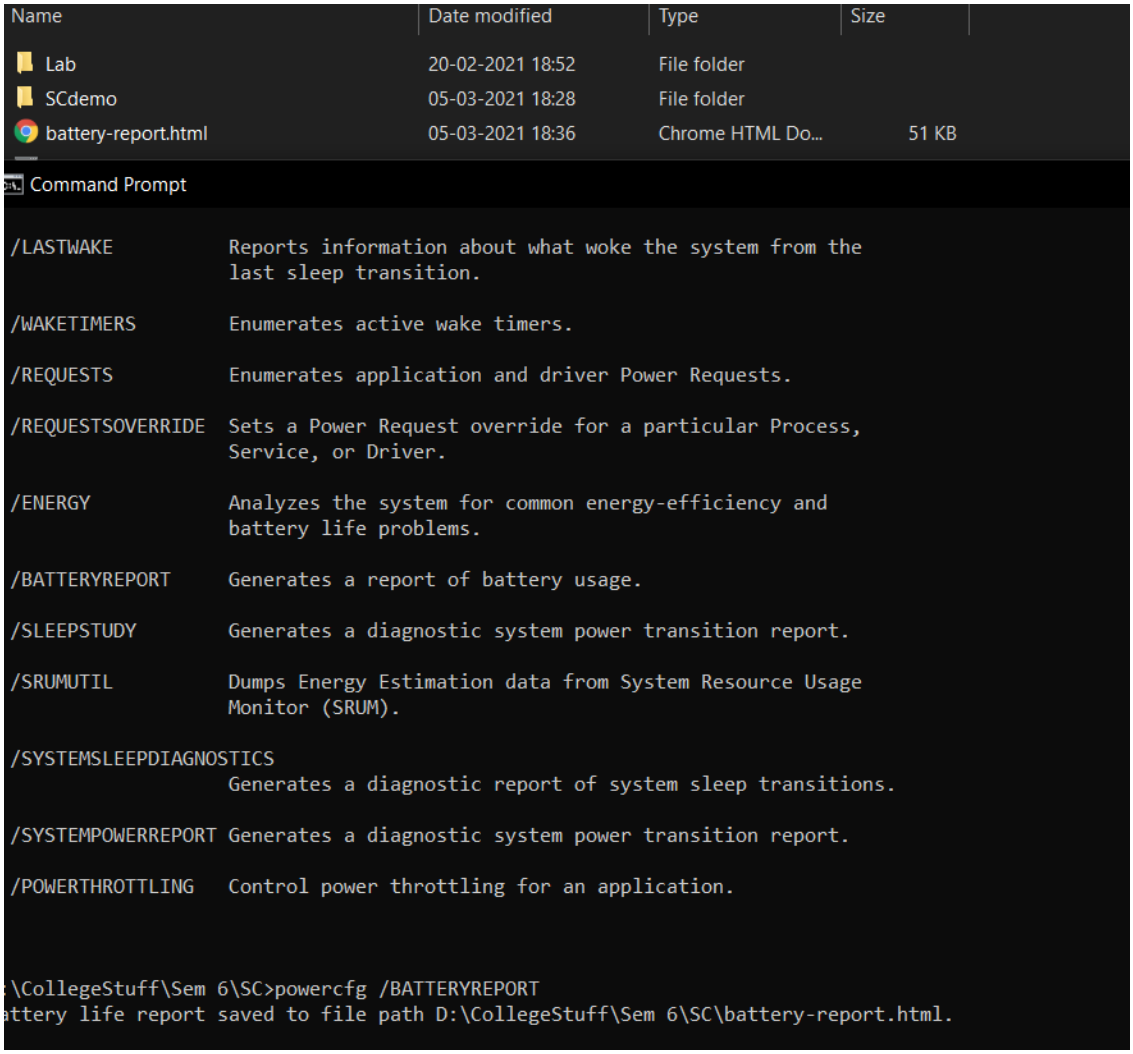


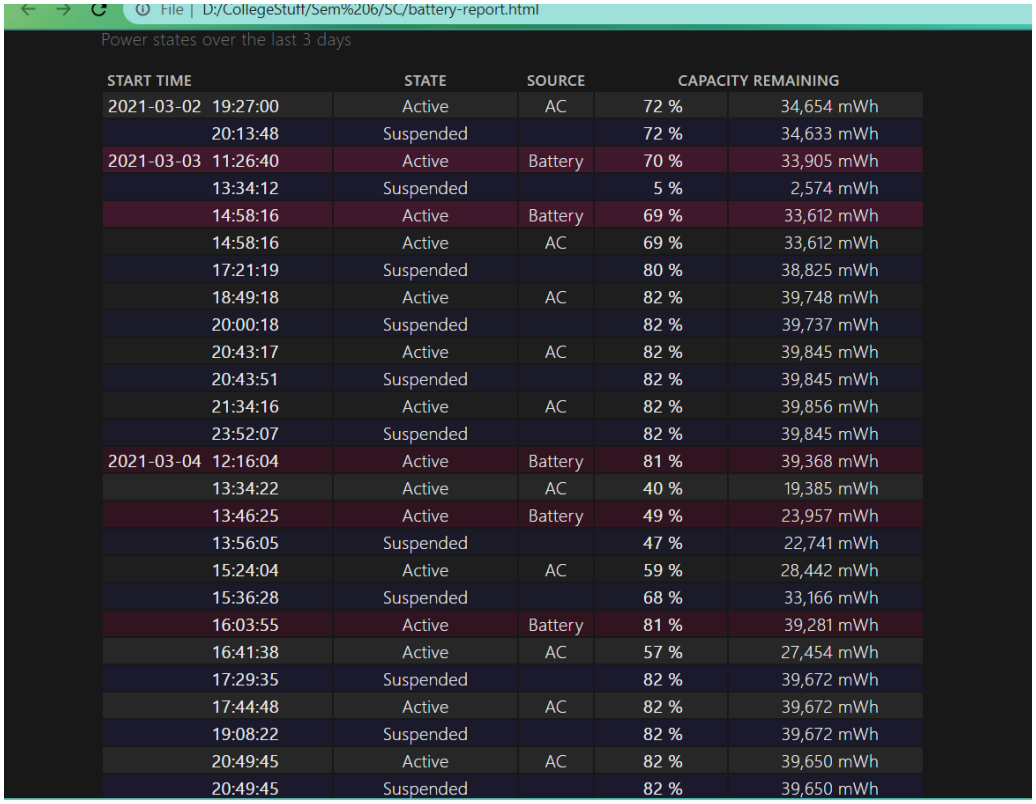
Folder is hidden. Visible due to settings.

Reverting hidden attribute:



2. **Powercfg command:**
   Battery report:


Name
Date modified
Type
Size
Lab
20-02-2021 18:52
File folder
SCdemo
05-03-2021 18:28
File folder
battery-report.html
05-03-2021 18:36
Chrome HTML Do...
51 KB
Command Prompt
/LASTWAKE Reports information about what woke the system from the last sleep transition.
/WAKETIMERS Enumerates active wake timers.
/REQUESTS Enumerates application and driver Power Requests.
/REQUESTSOVERRIDE Sets a Power Request override for a particular Process, Service, or Driver.
/ENERGY Analyzes the system for common energy-efficiency and battery life problems.
/BATTERYREPORT Generates a report of battery usage.
/SLEEPSTUDY Generates a diagnostic system power transition report.
/SRUMUTIL Dumps Energy Estimation data from System Resource Usage Monitor (SRUM).
/SYSTEMSLEEPDIAGNOSTICS Generates a diagnostic report of system sleep transitions.
/SYSTEMPOWERREPORT Generates a diagnostic system power transition report.
/POWERTHROTTLING Control power throttling for an application.
\CollegeStuff\Sem 6\SC>powercfg /BATTERYREPORT
ttery life report saved to file path D:\CollegeStuff\Sem 6\SC\battery-report.html.



File | D:/CollegeStuff/Sem%206/SC/battery-report.html

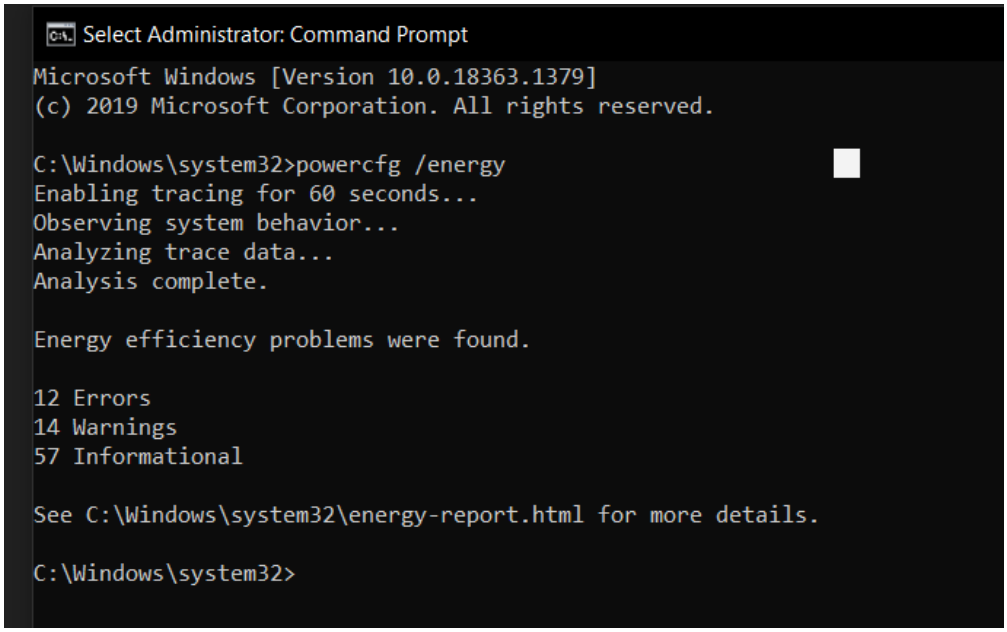
Power states over the last 3 days

START TIME	STATE	SOURCE	CAPACITY REMAINING	
2021-03-02 19:27:00	Active	AC	72 %	34,654 mWh
20:13:48	Suspended		72 %	34,633 mWh
2021-03-03 11:26:40	Active	Battery	70 %	33,905 mWh
13:34:12	Suspended		5 %	2,574 mWh
14:58:16	Active	Battery	69 %	33,612 mWh
14:58:16	Active	AC	69 %	33,612 mWh
17:21:19	Suspended		80 %	38,825 mWh
18:49:18	Active	AC	82 %	39,748 mWh
20:00:18	Suspended		82 %	39,737 mWh
20:43:17	Active	AC	82 %	39,845 mWh
20:43:51	Suspended		82 %	39,845 mWh
21:34:16	Active	AC	82 %	39,856 mWh
23:52:07	Suspended		82 %	39,845 mWh
2021-03-04 12:16:04	Active	Battery	81 %	39,368 mWh
13:34:22	Active	AC	40 %	19,385 mWh
13:46:25	Active	Battery	49 %	23,957 mWh
13:56:05	Suspended		47 %	22,741 mWh
15:24:04	Active	AC	59 %	28,442 mWh
15:36:28	Suspended		68 %	33,166 mWh
16:03:55	Active	Battery	81 %	39,281 mWh
16:41:38	Active	AC	57 %	27,454 mWh
17:29:35	Suspended		82 %	39,672 mWh
17:44:48	Active	AC	82 %	39,672 mWh
19:08:22	Suspended		82 %	39,672 mWh
20:49:45	Active	AC	82 %	39,650 mWh
20:49:45	Suspended		82 %	39,650 mWh

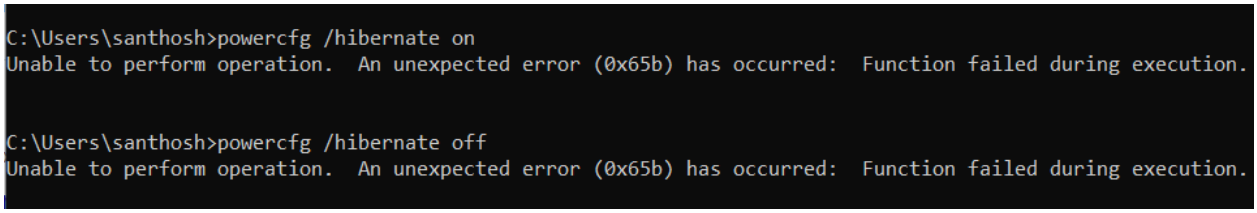
Lastwake:

```
D:\CollegeStuff\Sem 6\SC>powercfg /BATTERYREPORT
Battery life report saved to file path D:\CollegeStuff\Sem 6\SC\battery-report.html.

D:\CollegeStuff\Sem 6\SC>powercfg /lastwake
Wake History Count - 1
Wake History [0]
  Wake Source Count - 1
  Wake Source [0]
    Type: Device
    Instance Path: HID\PNP0C50&Col01\4&726ba71&1&0000
    Friendly Name:
    Description: HID-compliant mouse
    Manufacturer: Microsoft

D:\CollegeStuff\Sem 6\SC>
```

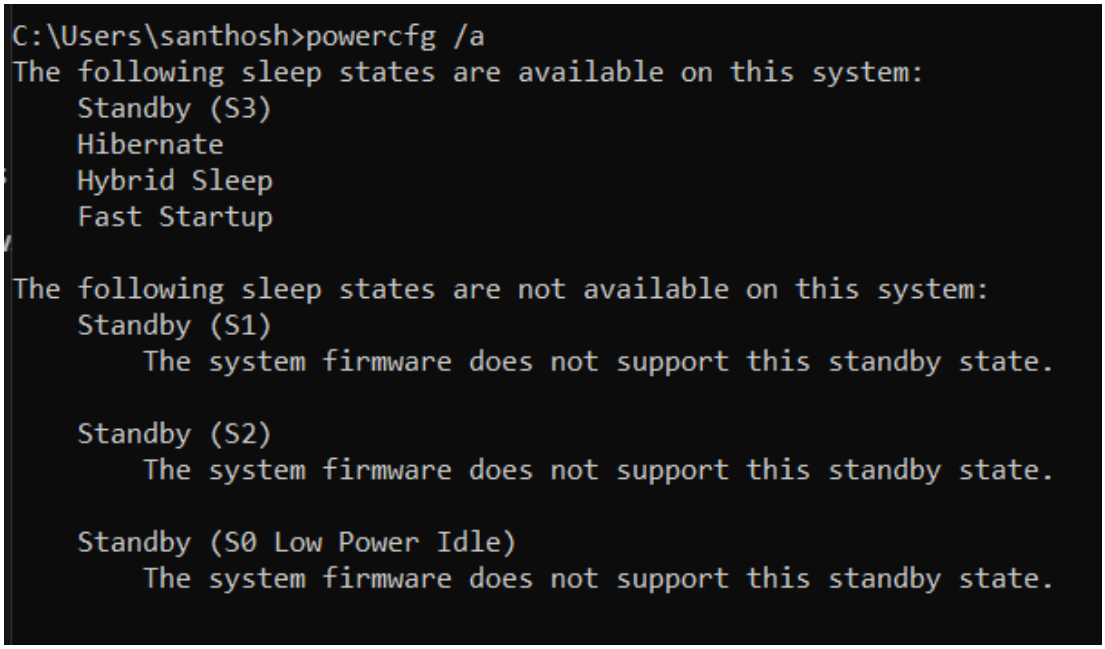
Energy consumption report:



Hibernate:



Available sleep states:



3. Scheduled Hello world python script:

Creating exe from python file:

```
Command Prompt
4056 INFO: Graph cross-reference written to D:\CollegeStuff\Sem 6\SC\Lab\Lab4\build\script\xref
4076 INFO: checking PYZ
4076 INFO: Building PYZ because PYZ-00.toc is non existent
4078 INFO: Building PYZ (ZlibArchive) D:\CollegeStuff\Sem 6\SC\Lab\Lab4\build\script\PYZ-00.pyz
4555 INFO: Building PYZ (ZlibArchive) D:\CollegeStuff\Sem 6\SC\Lab\Lab4\build\script\PYZ-00.pyz
4574 INFO: checking PKG
4575 INFO: Building PKG because PKG-00.toc is non existent
4576 INFO: Building PKG (CArchive) PKG-00.pkg
7055 INFO: Building PKG (CArchive) PKG-00.pkg completed successfully.
7059 INFO: Bootloader c:\users\santhosh\appdata\local\programs\python\python36\lib\site-package
Windows-64bit\run.exe
7060 INFO: checking EXE
7060 INFO: Building EXE because EXE-00.toc is non existent
7060 INFO: Building EXE from EXE-00.toc
7134 INFO: Copying icons from ['c:\\users\\santhosh\\appdata\\local\\programs\\python\\python36
nstaller\\bootloader\\images\\icon-console.ico']
7203 INFO: Writing RT_GROUP_ICON 0 resource with 104 bytes
7203 INFO: Writing RT_ICON 1 resource with 3752 bytes
7205 INFO: Writing RT_ICON 2 resource with 2216 bytes
7207 INFO: Writing RT_ICON 3 resource with 1384 bytes
7207 INFO: Writing RT_ICON 4 resource with 37019 bytes
7208 INFO: Writing RT_ICON 5 resource with 9640 bytes
7208 INFO: Writing RT_ICON 6 resource with 4264 bytes
7209 INFO: Writing RT_ICON 7 resource with 1128 bytes
7214 INFO: Updating manifest in D:\CollegeStuff\Sem 6\SC\Lab\Lab4\build\script\run.exe.jbm0m_bc
8067 INFO: Updating resource type 24 name 1 language 0
8081 INFO: Appending archive to EXE D:\CollegeStuff\Sem 6\SC\Lab\Lab4\dist\script.exe
8804 INFO: Building EXE from EXE-00.toc completed successfully.
```

_bz2.pyd	24-12-2018 00:17	Python Extension ...	88 KB
_ctypes.pyd	24-12-2018 00:17	Python Extension ...	130 KB
_hashlib.pyd	24-12-2018 00:19	Python Extension ...	1,649 KB
_lzma.pyd	24-12-2018 00:17	Python Extension ...	252 KB
_socket.pyd	24-12-2018 00:17	Python Extension ...	72 KB
_ssl.pyd	24-12-2018 00:19	Python Extension ...	2,092 KB
library.zip	05-03-2021 19:13	WinRAR ZIP archive	3,270 KB
pyexpat.pyd	24-12-2018 00:17	Python Extension ...	196 KB
python36.dll	24-12-2018 00:17	Application extens...	3,536 KB
script.exe	05-03-2021 19:15	Application	6,100 KB
select.pyd	24-12-2018 00:17	Python Extension ...	27 KB
unicodedata.pyd	24-12-2018 00:17	Python Extension ...	885 KB

```
C:\Users\santhosh>SCHTASKS /create /SC MONTHLY /MO first /D MON /TN PythonExecution /TR "D:\CollegeStuff\Sem 6\SC\Lab\La
b4\dist\script.exe"
SUCCESS: The scheduled task "PythonExecution" has successfully been created.

C:\Users\santhosh>
```

4. **Intermediate tasks: executer1 and executer2 for calculator and notepad:**

```
C:\Users\santhosh>schtasks /CREATE /SC MINUTE /MO 5 /TN EXECUTER /TR "C:\windows\System32\calc.exe" /ST 00:00
SUCCESS: The scheduled task "EXECUTER" has successfully been created.

C:\Users\santhosh>schtasks /CREATE /SC DAILY /TN EXECUTER2 /TR "C:\windows\System32\notepad.exe" /ST 17:00 /ET 17:40 /K
SUCCESS: The scheduled task "EXECUTER2" has successfully been created.
```

5. **Advanced task: Disk defrag**

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

C:\Users\santhosh>schtasks /CREATE /SC DAILY /TN DEFRAGDISK /TR "C:\Windows\System32\Defrag.exe D:" /ST 00:00
SUCCESS: The scheduled task "DEFRAGDISK" has successfully been created.
```

6. **Script to lock the computer:**

Lock.bat - Notepad

File Edit Format View Help

```
@echo off
rundll32.exe user32.dll,LockWorkStation
cls
```

7. **Script to empty recycle bin:**

ClearRecycleBin.bat - Notepad

File Edit Format View Help

```
@echo off
rd /s %systemdrive%\$Recycle.bin
cls
```