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1. Attrib command:

Hiding folder:

Folder is hidden. Visible due to settings.
    Reverting hidden attribute:

```
Name                          Date-modified         Type
 Lab                          20-02-2021 18:52      File folder
 replicationdelete.bat        20-02-2021 19:07      Windows Ba
 SCdemo                       05-03-2021 18:28      File folder
```
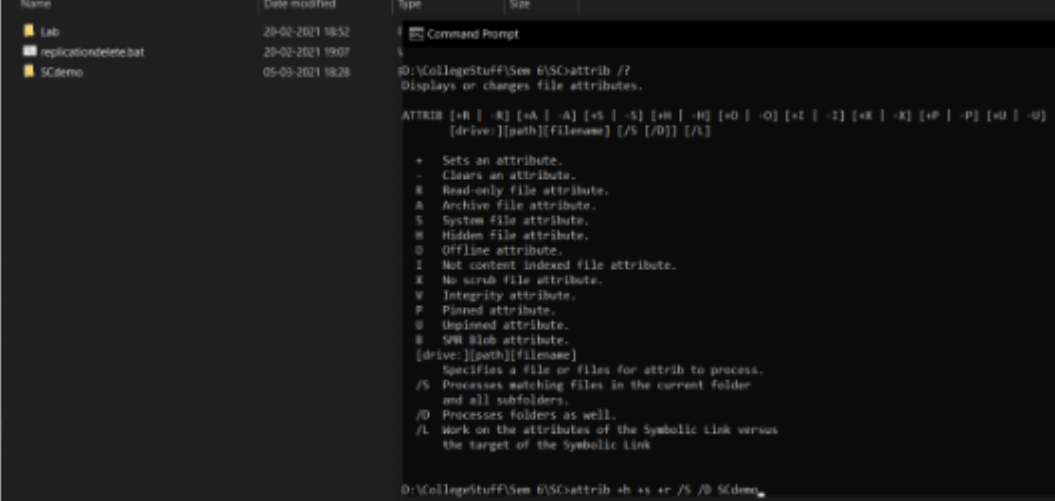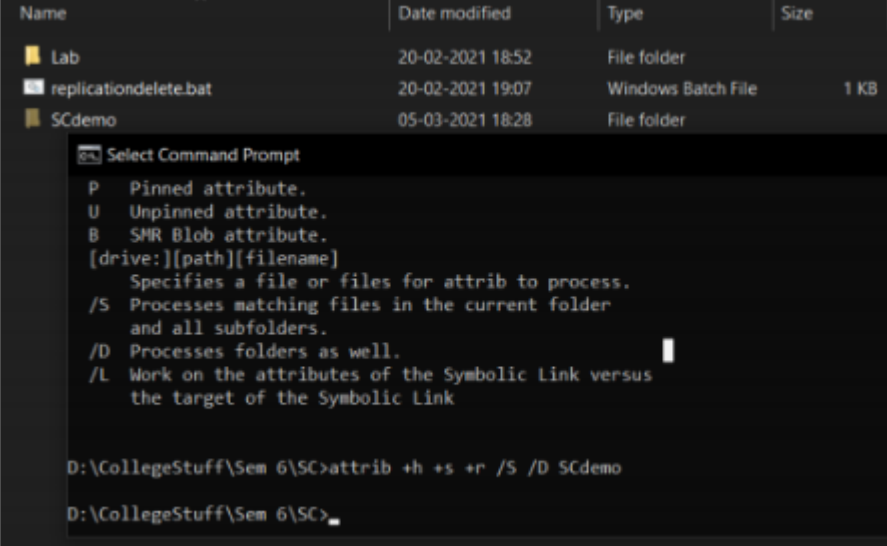
```
Command Prompt

B     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


D:\CollegeStuff\Sem 6\SC>attrib +h +s +r /S /D SCdemo

D:\CollegeStuff\Sem 6\SC>attrib -h -s -r /S /D SCdemo

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

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.
```

Lastwake:

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

Energy consumption report:


```
Select Administrator: Command Prompt

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

Energy efficiency problems were found.


12 Errors
14 Warnings
57 Informational


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


C:\Windows\system32>
```

Hibernat

```
C:\Users\santhosh>powercfg /hibernate on
Unable to perform operation.  An unexpected error (0x65b) has occurred:  Function failed during execution.

C:\Users\santhosh>powercfg /hibernate off
Unable to perform operation.  An unexpected error (0x65b) has occurred:  Function failed during execution.
```

Available sleep states:

```
C:\Users\santhosh>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.
```

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                                                        —    □

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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
```