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## 1. Attrib command:



D:\CollegeStuff\Sem 6>attrib /?

Attrib [drive:][path][filename] [/S][/D][/L]

Displays or changes file attributes.

ATTRIB [drive:]<path> <file> <attr> [/S] [/D] [/L]

[drive:]<path>[filename]

- 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 write file attribute.
- Integrity attribute.
- Pinned attribute.
- Unpinned attribute.
- SMR Blob attribute.

[drive:]<path>[filename]

Specifies a file or files for attrib to process.

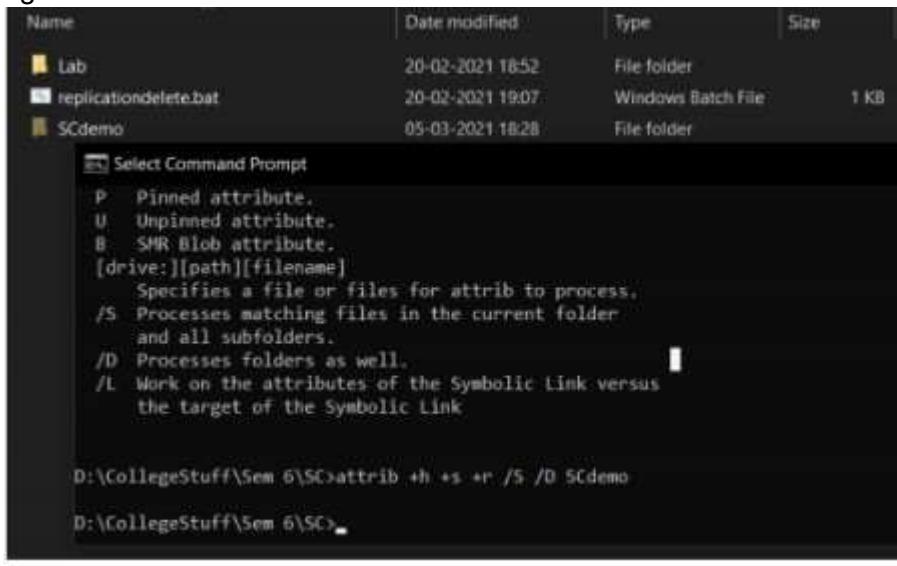
/S Processes matching files in the current folder and all subfolders.

/D Processes folders as well.

/L Work on the attributes of the symbolic link versus the target of the symbolic link.

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

Hiding folder:



Name	Date modified	Type	Size
Lab	20-02-2021 18:52	File folder	
replicationdelete.bat	20-02-2021 19:07	Windows Batch File	1 KB
SCdemo	05-03-2021 18:28	File folder	

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

D:\CollegeStuff\Sem 6>

Folder is hidden. Visible due to settings.

Reverting hidden attribute:

File Explorer content:

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

Command Prompt content:

```
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:

File Explorer content:

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 Document	51 KB

Command Prompt content:

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

Lastwake:

Power events 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 %	2,374 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 %	23,897 mWh
13:56:05	Suspended		47 %	22,741 mWh
15:24:04	Active	AC	59 %	28,142 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
Microsoft Windows [Version 10.0.18363.1379]
(c) 2019 Microsoft Corporation. All rights reserved.

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:

```
4056 INFO: Graph cross-reference written to D:\CollegeStuff\Sem 6\SC\Lab\Lab4\build\script\xref  
4876 INFO: checking PYZ  
4876 INFO: Building PYZ because PYZ-00.toc is non existent  
4878 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.  
7859 INFO: Bootloader c:\users\santhosh\appdata\local\programs\python\python36\lib\site-packages  
Windows-64bit\run.exe  
7860 INFO: checking EXE  
7860 INFO: Building EXE because EXE-00.toc is non existent  
7860 INFO: Building EXE from EXE-00.toc  
7134 INFO: Copying icons from ['c:\\users\\santhosh\\appdata\\local\\programs\\python\\python36  
installer\\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 37039 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  
8867 INFO: Updating resource type 24 name 1 language 0  
8881 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
	_l��ma.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
	scriptexe	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\dlist\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.

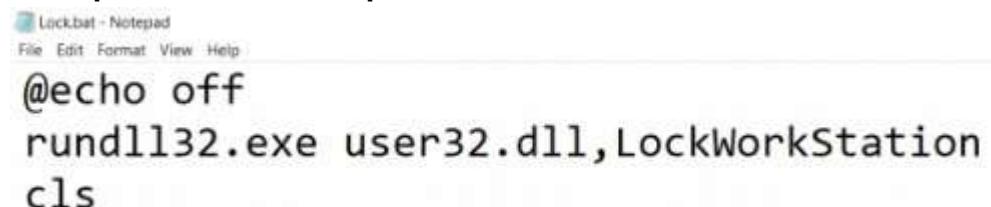
C:\Users\Santhosh>schtasks /CREATE /SC DAILY /TN EXECUTER2 /TR "C:\Windows\System32\notepad.exe" /ST 17:00 /ET 17:48 /K
SUCCESS: The scheduled task "EXECUTER2" has successfully been created.
```

#### 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 DEFRAZDISK /TR "C:\Windows\System32\Defrag.exe D;" /ST 00:00  
SUCCESS: The scheduled task "DEFRAZDISK" 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
```