

Lab 3 – Job Automation

Experiment - File Replication.

- Assume your computer got infected with some virus.
- Virus exhibits the property of replication with the same file name.
 - For example. File1 is replicated as File1(1) -> Initial infection
 - File1(2) -> Second infection, likewise it replicates File1 for 50 times.
- Now, How will you find all the replicated files.
- **Task to experiment: Use the cmd prompt to identify and locate the files and delete the same.**

```
C:\Users\SATYAM\Videos\SC_lab>where /R C:\ File1*.py
```

```
C:\Users\SATYAM\Videos\SC_lab\File1(0).py
```

```
C:\Users\SATYAM\Videos\SC_lab\File1(1).py
```

```
C:\Users\SATYAM\Videos\SC_lab\File1(12).py
```

```
C:\Users\SATYAM\Videos\SC_lab\File1(14).py
```

```
C:\Users\SATYAM\Videos\SC_lab\File1(19).py
```

```
C:\Users\SATYAM\Videos\SC_lab\File1(26).py
```

```
C:\Users\SATYAM\Videos\SC_lab\File1(29).py
```

```
C:\Users\SATYAM\Videos\SC_lab\File1(33).py
```

```
C:\Users\SATYAM\Videos\SC_lab\File1(36).py
```

```
C:\Users\SATYAM\Videos\SC_lab\File1(4).py
```

```
C:\Users\SATYAM\Videos\SC_lab\File1(8).py
```

```
C:\Users\SATYAM\Videos\SC_lab\File1.py
```

```
C:\Users\SATYAM\Videos\SC_lab\18SS_2\File1(11).py
```

```
C:\Users\SATYAM\Videos\SC_lab\18SS_2\File1(17).py
```

```
C:\Users\SATYAM\Videos\SC_lab\18SS_2\File1(2).py
```

```
C:\Users\SATYAM\Videos\SC_lab\18SS_2\File1(20).py
```

```
C:\Users\SATYAM\Videos\SC_lab\18SS_2\File1(23).py
```

```
C:\Users\SATYAM\Videos\SC_lab\18SS_2\File1(24).py
```

C:\Users\SATYAM\Videos\SC_lab\18SS_2\File1(28).py
C:\Users\SATYAM\Videos\SC_lab\18SS_2\File1(3).py
C:\Users\SATYAM\Videos\SC_lab\18SS_2\File1(31).py
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C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\File1(13).py
C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\File1(15).py
C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\File1(16).py
C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\File1(18).py
C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\File1(21).py
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C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\File1(30).py
C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\File1(5).py
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C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\18SS_4\File1(43).py
C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\18SS_4\File1(44).py
C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\18SS_4\File1(45).py

C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\18SS_4\File1(46).py
C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\18SS_4\File1(47).py
C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\18SS_4\File1(48).py
C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\18SS_4\File1(49).py
C:\Windows.old\Users\SATYAM\Documents\My Videos\SC_lab\File1(0).py
C:\Windows.old\Users\SATYAM\Documents\My Videos\SC_lab\File1(1).py
C:\Windows.old\Users\SATYAM\Documents\My Videos\SC_lab\File1(12).py
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C:\Windows.old\Users\SATYAM\Documents\My Videos\SC_lab\18SS_2\18SS_3\File1(13).py
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C:\Windows.old\Users\SATYAM\Documents\My Videos\SC_lab\18SS_2\18SS_3\18SS_4\File1(49).py

C:\Users\SATYAM\Videos\SC_lab>del /s File1(*.py

Deleted file - C:\Users\SATYAM\Videos\SC_lab\File1(0).py

Deleted file - C:\Users\SATYAM\Videos\SC_lab\File1(11).py

Deleted file - C:\Users\SATYAM\Videos\SC_lab\File1(16).py

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Deleted file - C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\18SS_4\File1(40).py
Deleted file - C:\Users\SATYAM\Videos\SC_lab\18SS_2\18SS_3\18SS_4\File1(42).py

Classwork

- Write a file replication code to copy the same file for 50 times on the same directory.

```
import os  
  
for i in range(50):  
    os.system('copy File1.py File1({}).py'.format(i))
```

Basics

- Create a task name “Reg.no_Task1” to run on a specific time
- Change the time of the scheduled task
- Delete the scheduled task
- Schedule an another task to run only on Weekdays
- Schedule an another task to run only on Weekends

```
C:\Users\SATYAM>schtasks /?
```

SCHTASKS /parameter [arguments]

Description:

Enables an administrator to create, delete, query, change, run and end scheduled tasks on a local or remote system.

Parameter List:

/Create Creates a new scheduled task.

/Delete Deletes the scheduled task(s).

/Query Displays all scheduled tasks.

/Change Changes the properties of scheduled task.

/Run Runs the scheduled task on demand.

/End Stops the currently running scheduled task.

/ShowSid Shows the security identifier corresponding to a scheduled task name.

/? Displays this help message.

Examples:

SCHTASKS

SCHTASKS /?

SCHTASKS /Run /?

SCHTASKS /End /?

SCHTASKS /Create /?

SCHTASKS /Delete /?

SCHTASKS /Query /?

SCHTASKS /Change /?

SCHTASKS /ShowSid /?

```
C:\Users\SATYAM>schtasks /create /tn "18BCN7106_Task1" /tr notepad.exe /st 14:34:00
```

Invalid syntax. Mandatory option 'sc' is missing.

Type "CREATE /?" for usage.

```
C:\Users\SATYAM>schtasks /create /tn "18BCN7106_Task1" /tr notepad.exe /sc daily /st 14:34:00
```

SUCCESS: The scheduled task "18BCN7106_Task1" has successfully been created.

```
C:\Users\SATYAM>schtasks
```

Folder: \

TaskName	Next Run Time	Status
----------	---------------	--------

=====

18BCN7106_Task1	17-Feb-21 2:34:00 PM	Ready
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Bitdefender AgentTask_AD394AE64E874073B1	N/A	Ready
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Microsoft Office 15 Sync Maintenance for N/A Ready
NvBatteryBoostCheckOnLogon_{B2FE1952-018 N/A ^C

C:\Users\SATYAM>schtasks /change /tn "18BCN7106_Task1" /st 14:40

Please enter the run as password for Girish_Kumar: *****

SUCCESS: The parameters of scheduled task "18BCN7106_Task1" have been changed.

C:\Users\SATYAM>schtasks

Folder: \

TaskName	Next Run Time	Status
=====		
18BCN7106_Task1	17-Feb-21 2:40:00 PM	Ready
Bitdefender AgentTask_AD394AE64E874073B1	N/A	Ready
Microsoft Office 15 Sync Maintenance for N/A		^C

C:\Users\SATYAM>schtasks /delete "18BCN7106_Task1"

ERROR: Invalid argument/option - '18BCN7106_Task1'.

Type "SHTASKS /DELETE /?" for usage.

C:\Users\SATYAM>schtasks /delete /tn "18BCN7106_Task1"

WARNING: Are you sure you want to remove the task "18BCN7106_Task1" (Y/N)? y

SUCCESS: The scheduled task "18BCN7106_Task1" was successfully deleted.

C:\Users\SATYAM>schtasks

Folder: \

TaskName	Next Run Time	Status
=====		

Bitdefender AgentTask_AD394AE64E874073B1 N/A	Ready
Microsoft Office 15 Sync Maintenance for N/A	Ready
NvBatteryBoostCheckOnLogon_{B2FE1952-018 N/A	Ready

^C

C:\Users\SATYAM>

C:\Users\SATYAM>schtasks /create /tn "18BCN7106_Task2" /sc weekly /d MON,TUE,WED,THU,FRI /tr "C:\Windows\System32\notepad.exe" /st 14:50

SUCCESS: The scheduled task "18BCN7106_Task2" has successfully been created.

C:\Users\SATYAM>schtasks

Folder: \

TaskName	Next Run Time	Status
=====		
18BCN7106_Task2	17-Feb-21 2:50:00 PM	Ready
Bitdefender AgentTask_AD394AE64E874073B1 N/A		Ready
Microsoft Office 15 Sync Maintenance for N/A		Ready
NvBatteryBoostCheckOnLogon_{B2FE1952-018 N/A		^C

C:\Users\SATYAM>schtasks /create /tn "18BCN7106_Task3" /sc weekly /d SAT,SUN /tr "C:\Windows\System32\notepad.exe" /st 14:50

SUCCESS: The scheduled task "18BCN7106_Task3" has successfully been created.

C:\Users\SATYAM>schtasks

Folder: \

TaskName	Next Run Time	Status
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=====

18BCN7106_Task2 18-Feb-21 2:50:00 PM Ready

18BCN7106_Task3 20-Feb-21 2:50:00 PM Ready

Bitdefender AgentTask_AD394AE64E874073B1 N/A Ready

Microsoft Office 15 Sync Maintenance for N/A ^C

C:\Users\SATYAM>