

Secure Coding

1. Find command helps to find the files

```
C:\Users\ganga>where /?
```

```
WHERE [/R dir] [/Q] [/F] [/T] pattern...
```

Description:

Displays the location of files that match the search pattern.
By default, the search is done along the current directory and in the paths specified by the PATH environment variable.

Parameter List:

/R Recursively searches and displays the files that match the given pattern starting from the specified directory.

```
C:\Users\ganga>where /R c:\:PrintDemo.class
```

```
ERROR: Invalid syntax. Default argument is missing.
```

```
Type "WHERE /?" for usage.
```

```
C:\Users\ganga>where /R c:\ PrintDemo.class
```

```
c:\Users\ganga\AppData\Local\Temp\bluej2090289839528220938\PrintDemo.class
```

```
c:\Users\ganga\AppData\Local\Temp\bluej5645619141149356659\PrintDemo.class
```

```
c:\Users\ganga\Downloads\PrintDemo.class
```

```
c:\Users\ganga\np\PrintDemo.class
```

2.diskpart

```
C:\Users\ganga>diskpart
```

```
DISKPART> list disk
```

Disk ###	Status	Size	Free	Dyn	Gpt
-----	-----	-----	-----	---	---
Disk 0	Online	119 GB	6144 KB		*
Disk 1	Online	931 GB	0 B		*

```
DISKPART> select disk 0
```

Disk 0 is now the selected disk.

```
DISKPART> list vol
```

Volume ###	Ltr	Label	Fs	Type	Size	Status	Info
Volume 0	C	Windows	NTFS	Partition	118 GB	Healthy	Boot
Volume 1			FAT32	Partition	260 MB	Healthy	System
Volume 2		Windows RE	NTFS	Partition	980 MB	Healthy	Hidden
Volume 3	D	DATA	NTFS	Partition	917 GB	Healthy	
Volume 4	E	RECOVERY	NTFS	Partition	14 GB	Healthy	

```
DISKPART> list partition
```

Partition ###	Type	Size	Offset
Partition 1	System	260 MB	1024 KB
Partition 2	Reserved	16 MB	261 MB
Partition 3	Primary	118 GB	277 MB
Partition 4	Recovery	980 MB	118 GB

3.

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.**

Finding the file

```
C:\Users\ganga>where /R c:\ File1*
c:\Users\ganga\AppData\Roaming\Microsoft\Windows\Recent\File1(1).lnk
c:\Users\ganga\AppData\Roaming\Microsoft\Windows\Recent\File1(10).lnk
c:\Users\ganga\AppData\Roaming\Microsoft\Windows\Recent\File1(2).lnk
c:\Users\ganga\AppData\Roaming\Microsoft\Windows\Recent\File1(3).lnk
c:\Users\ganga\AppData\Roaming\Microsoft\Windows\Recent\File1(4).lnk
c:\Users\ganga\AppData\Roaming\Microsoft\Windows\Recent\File1(5).lnk
c:\Users\ganga\AppData\Roaming\Microsoft\Windows\Recent\File1(6).lnk
c:\Users\ganga\AppData\Roaming\Microsoft\Windows\Recent\File1(8).lnk
c:\Users\ganga\AppData\Roaming\Microsoft\Windows\Recent\File1(9).lnk
c:\Users\ganga\OneDrive\Desktop\virus\File1(1).txt
c:\Users\ganga\OneDrive\Desktop\virus\File1(10).txt
c:\Users\ganga\OneDrive\Desktop\virus\File1(2).txt
c:\Users\ganga\OneDrive\Desktop\virus\File1(3).txt
c:\Users\ganga\OneDrive\Desktop\virus\File1(4).txt
c:\Users\ganga\OneDrive\Desktop\virus\File1(5).txt
c:\Users\ganga\OneDrive\Desktop\virus\File1(6).txt
c:\Users\ganga\OneDrive\Desktop\virus\File1(7).txt
c:\Users\ganga\OneDrive\Desktop\virus\File1(8).txt
c:\Users\ganga\OneDrive\Desktop\virus\File1(9).txt
```

Deleting the file

```
C:\Users\ganga>cd OneDrive\Desktop\virus
C:\Users\ganga\OneDrive\Desktop\virus>del File1*
```

4.

Classwork

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

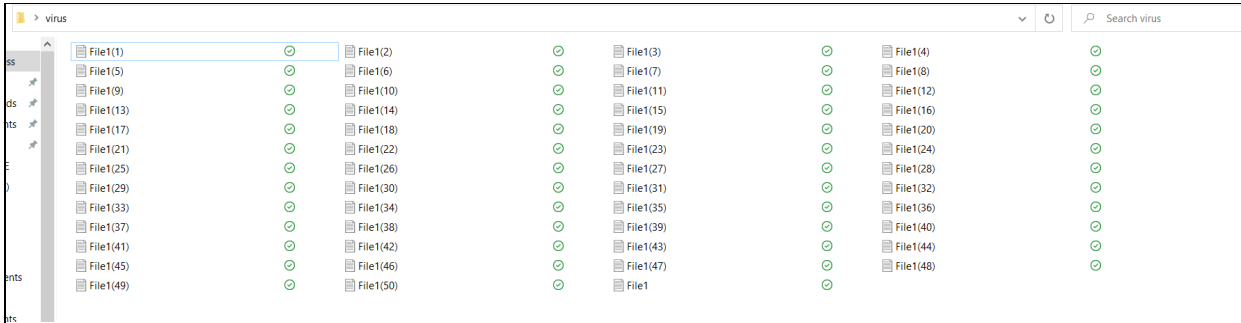
Code

```
import shutil

#File path to replicate
original = r'C:\Users\ganga\OneDrive\Desktop\virus\File1.txt'

#replicates the file 50 times
for i in range(1,51):
    target = r'C:\Users\ganga\OneDrive\Desktop\virus\File1('+str(i)+'').txt'
    shutil.copyfile(original, target)
```

OUTPUT



5.

Check the scheduled task using schtasks

```
C:\Users\ganga>schtasks

Folder: \
TaskName                Next Run Time          Status
=====
BlueStacksHelper        10/02/2021 16:59:30    Ready
HPAudioSwitch           N/A                    Running
```

6.

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

Create the task

```
C:\Users\ganga>SCHTASKS /CREATE /SC DAILY /TN "Tasks\18BCN7014_Task1" /TR "C:\Users\ganga\OneDrive\Desktop\hello task.py" /ST 20:50
SUCCESS: The scheduled task "Tasks\18BCN7014_Task1" has successfully been created.
```

```
Folder: \Tasks
TaskName                               Next Run Time           Status
=====
18BCN7014_Task1                       10/02/2021 20:50:00    Ready
```

Change the time

```
C:\Users\ganga>SCHTASKS /CHANGE /TN "Tasks\18BCN7014_Task1" /ST 20:55
Please enter the run as password for ganga: *****

SUCCESS: The parameters of scheduled task "Tasks\18BCN7014_Task1" have been changed.
```

```
Folder: \Tasks
TaskName                               Next Run Time           Status
=====
18BCN7014_Task1                       10/02/2021 20:55:00    Ready
```

Deleting the task

```
C:\Users\ganga>SCHTASKS /DELETE /TN "Tasks\18BCN7014_Task1"
WARNING: Are you sure you want to remove the task "Tasks\18BCN7014_Task1" (Y/N)? y
SUCCESS: The scheduled task "Tasks\18BCN7014_Task1" was successfully deleted.
```

Scheduling task on Weekends

```
C:\Users\ganga>SCHTASKS /CREATE /SC WEEKLY /D SAT,SUN /TN "Tasks\18BCN7014_Task1" /TR "C:\Users\ganga\OneDrive\Desktop\hello task.py" /ST 20:50
SUCCESS: The scheduled task "Tasks\18BCN7014_Task1" has successfully been created.
```

```
Folder: \Tasks
TaskName                               Next Run Time           Status
=====
18BCN7014_Task1                       13/02/2021 20:50:00    Ready
```

Scheduling task on Weekdays

```
C:\Users\ganga>SCHTASKS /CREATE /SC WEEKLY /D MON,TUE,WED,THU,FRI /TN "Tasks\18BCN7014_Task1" /TR "C:\Users\ganga\OneDrive\Desktop\hello task.py" /ST 20:50
SUCCESS: The scheduled task "Tasks\18BCN7014_Task1" has successfully been created.
```

```
Folder: \Tasks
TaskName                               Next Run Time           Status
=====
18BCN7014_Task1                       11/02/2021 20:50:00    Ready
```

