Secure coding lab3

Assignment: 3

Name: GOPI NANDNAN   RegNo: 19BCN7056

1) Find browser installation location

Ans) Where

where /R C:\ *.exe | findstr chrome

```
C:\Users\morth>where
The syntax of this command is:

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.

    /Q          Returns only the exit code, without displaying the list
                of matched files. (Quiet mode)

    /F          Displays the matched filename in double quotes.

    /T          Displays the file size, last modified date and time for all
                matched files.

    pattern     Specifies the search pattern for the files to match.
                Wildcards * and ? can be used in the pattern. The
                "$env:pattern" and "path:pattern" formats can also be
                specified, where "env" is an environment variable and
                the search is done in the specified paths of the "env"
                environment variable. These formats should not be used
                with /R. The search is also done by appending the
                extensions of the PATHEXT variable to the pattern.

    /?          Displays this help message.

 NOTE: The tool returns an error level of 0 if the search is
       successful, of 1 if the search is unsuccessful and
       of 2 for failures or errors.
```

```
C:\Users\morth>where /R C:\ *.exe | findstr chrome
C:\Program Files (x86)\Google\Chrome\Application\chrome.exe
C:\Program Files (x86)\Google\Chrome\Application\chrome_proxy.exe
C:\Program Files (x86)\Google\Chrome\Application\88.0.4324.150\chrome_pwa_launcher.exe
C:\Program Files (x86)\Google\Update\Download\{8A69D345-D564-463C-AFF1-A69D9E530F96}\88.0.4324.150\88.0.4324.150_88.0.4324.146_chrome_updater.exe
```

2)Experiment file replication

```
C:\Users\morth> where /R c:\Users\morth\desktop *.txt |findstr SC
C:\Users\morth\Desktop\19bcn7056\SC%1.txt
C:\Users\morth\Desktop\19bcn7056\SC%10.txt
C:\Users\morth\Desktop\19bcn7056\SC%11.txt
C:\Users\morth\Desktop\19bcn7056\SC%12.txt
C:\Users\morth\Desktop\19bcn7056\SC%13.txt
C:\Users\morth\Desktop\19bcn7056\SC%14.txt
C:\Users\morth\Desktop\19bcn7056\SC%15.txt
C:\Users\morth\Desktop\19bcn7056\SC%16.txt
C:\Users\morth\Desktop\19bcn7056\SC%17.txt
C:\Users\morth\Desktop\19bcn7056\SC%18.txt
C:\Users\morth\Desktop\19bcn7056\SC%19.txt
C:\Users\morth\Desktop\19bcn7056\SC%2.txt
C:\Users\morth\Desktop\19bcn7056\SC%20.txt
C:\Users\morth\Desktop\19bcn7056\SC%21.txt
C:\Users\morth\Desktop\19bcn7056\SC%22.txt
C:\Users\morth\Desktop\19bcn7056\SC%23.txt
C:\Users\morth\Desktop\19bcn7056\SC%24.txt
C:\Users\morth\Desktop\19bcn7056\SC%25.txt
C:\Users\morth\Desktop\19bcn7056\SC%26.txt
C:\Users\morth\Desktop\19bcn7056\SC%27.txt
C:\Users\morth\Desktop\19bcn7056\SC%28.txt
C:\Users\morth\Desktop\19bcn7056\SC%29.txt
C:\Users\morth\Desktop\19bcn7056\SC%3.txt
C:\Users\morth\Desktop\19bcn7056\SC%30.txt
C:\Users\morth\Desktop\19bcn7056\SC%31.txt
C:\Users\morth\Desktop\19bcn7056\SC%32.txt
C:\Users\morth\Desktop\19bcn7056\SC%33.txt
C:\Users\morth\Desktop\19bcn7056\SC%34.txt
C:\Users\morth\Desktop\19bcn7056\SC%35.txt
C:\Users\morth\Desktop\19bcn7056\SC%36.txt
C:\Users\morth\Desktop\19bcn7056\SC%37.txt
C:\Users\morth\Desktop\19bcn7056\SC%38.txt
C:\Users\morth\Desktop\19bcn7056\SC%39.txt
C:\Users\morth\Desktop\19bcn7056\SC%4.txt
C:\Users\morth\Desktop\19bcn7056\SC%40.txt
C:\Users\morth\Desktop\19bcn7056\SC%41.txt
C:\Users\morth\Desktop\19bcn7056\SC%42.txt
```

Deleting files

```
C:\Users\morth>cd desktop/19bcn7056

C:\Users\morth\Desktop\19bcn7056>del SC*

C:\Users\morth\Desktop\19bcn7056>_
```

3) Write a file replication code to copy the same file for 50 times on the same directory

```
C:\Users\morth\Desktop\19bcn7056>for /L %i in (1,1,50) do copy SC.txt SC%%i.txt

C:\Users\morth\Desktop\19bcn7056>copy SC.txt SC%1.txt
        1 file(s) copied.

C:\Users\morth\Desktop\19bcn7056>copy SC.txt SC%2.txt
        1 file(s) copied.

C:\Users\morth\Desktop\19bcn7056>copy SC.txt SC%3.txt
        1 file(s) copied.

C:\Users\morth\Desktop\19bcn7056>copy SC.txt SC%4.txt
        1 file(s) copied.

C:\Users\morth\Desktop\19bcn7056>copy SC.txt SC%5.txt
        1 file(s) copied.

C:\Users\morth\Desktop\19bcn7056>copy SC.txt SC%6.txt
        1 file(s) copied.

C:\Users\morth\Desktop\19bcn7056>copy SC.txt SC%7.txt
        1 file(s) copied.

C:\Users\morth\Desktop\19bcn7056>copy SC.txt SC%8.txt
        1 file(s) copied.

C:\Users\morth\Desktop\19bcn7056>copy SC.txt SC%9.txt
        1 file(s) copied.

C:\Users\morth\Desktop\19bcn7056>copy SC.txt SC%10.txt
        1 file(s) copied.

C:\Users\morth\Desktop\19bcn7056>copy SC.txt SC%11.txt
        1 file(s) copied.

C:\Users\morth\Desktop\19bcn7056>copy SC.txt SC%12.txt
        1 file(s) copied.

C:\Users\morth\Desktop\19bcn7056>copy SC.txt SC%13.txt
        1 file(s) copied.

C:\Users\morth\Desktop\19bcn7056>copy SC.txt SC%14.txt
        1 file(s) copied.
```

schtasks

```
C:\Users\morth>schtasks

Folder: \
TaskName                                      Next Run Time          Status
========================================= ===================== ==============
App Explorer                                  N/A                    Running
Bitdefender AgentTask_AD394AE64E874073B1 N/A                         Ready
JavaUpdateSched                               N/A                    Ready
LenovoUtility Task                            N/A                    Ready
OneDrive Standalone Update Task-S-1-5-21 2/18/2021 5:45:07 PM    Ready
Opera GX scheduled Autoupdate 1603023539 2/18/2021 3:34:31 PM    Ready
Opera scheduled assistant Autoupdate 157 2/19/2021 10:29:37 AM  Ready
Opera scheduled Autoupdate 1572842510       2/18/2021 2:47:47 PM    Ready
ProtonVPN Update                              N/A                    Ready
WpsExternal_morth_20210205090323             2/18/2021 12:19:00 PM  Running
WpsUpdateTask_morth                          2/18/2021 11:47:00 AM  Ready

Folder: \Agent Activation Runtime
TaskName                                      Next Run Time          Status
========================================= ===================== ==============
S-1-5-21-1936293525-1644202439-834527687 N/A                        Disabled

Folder: \Lenovo
TaskName                                      Next Run Time          Status
========================================= ===================== ==============
INFO: There are no scheduled tasks presently available at your access level.

Folder: \Lenovo\ImController
TaskName                                      Next Run Time          Status
========================================= ===================== ==============
INFO: There are no scheduled tasks presently available at your access level.

Folder: \Lenovo\Lenovo Service Bridge
TaskName                                      Next Run Time          Status
========================================= ===================== ==============
S-1-5-21-1936293525-1644202439-834527687 N/A                        Ready

Folder: \Lenovo\Vantage
TaskName                                      Next Run Time          Status
========================================= ===================== ==============
INFO: There are no scheduled tasks presently available at your access level.

Folder: \Microsoft
```

4)basics

1. Create and delete tasks

```
C:\Users\morth>schtasks /Create /SC once /TN 19BCN7056_Task1 /TR c:\windows\system32\defrag.exe /ST 11:45:00
WARNING: Task may not run because /ST is earlier than current time.
SUCCESS: The scheduled task "19BCN7056_Task1" has successfully been created.

C:\Users\morth>schtasks /delete /TN 19BCN7056_Task1
WARNING: Are you sure you want to remove the task "19BCN7056_Task1" (Y/N)? Y
SUCCESS: The scheduled task "19BCN7056_Task1" was successfully deleted.
```

2. Changing time of the given task

```
C:\Users\morth>schtasks /change /TN 19BCN7056_Task1 /ST  11:50:00
Please enter the run as password for morth: ***

ERROR: The user name or password is incorrect.
```

3. Schedule another task to run only on Weekdays

```
C:\Users\morth>schtasks /Create /SC weekly /D MON,TUE,WED,THU,FRI /TN 19BCN7056_Task1 /TR c:\windows\system32\defrag.exe /ST 11:45:00
SUCCESS: The scheduled task "19BCN7056_Task1" has successfully been created.

C:\Users\morth>schtasks /delete /TN 19BCN7056_Task1
WARNING: Are you sure you want to remove the task "19BCN7056_Task1" (Y/N)? y
SUCCESS: The scheduled task "19BCN7056_Task1" was successfully deleted.
```

4. Schedule an another task to run only on Weekends

```
C:\Users\morth>schtasks /Create /SC weekly /D SAT,SUN /TN 19BCN7056_Task1 /TR c:\windows\system32\defrag.exe /ST 11:45:00
SUCCESS: The scheduled task "19BCN7056_Task1" has successfully been created.

C:\Users\morth>schtasks /delete /TN 19BCN7056_Task1
WARNING: Are you sure you want to remove the task "19BCN7056_Task1" (Y/N)? Y
SUCCESS: The scheduled task "19BCN7056_Task1" was successfully deleted.
```