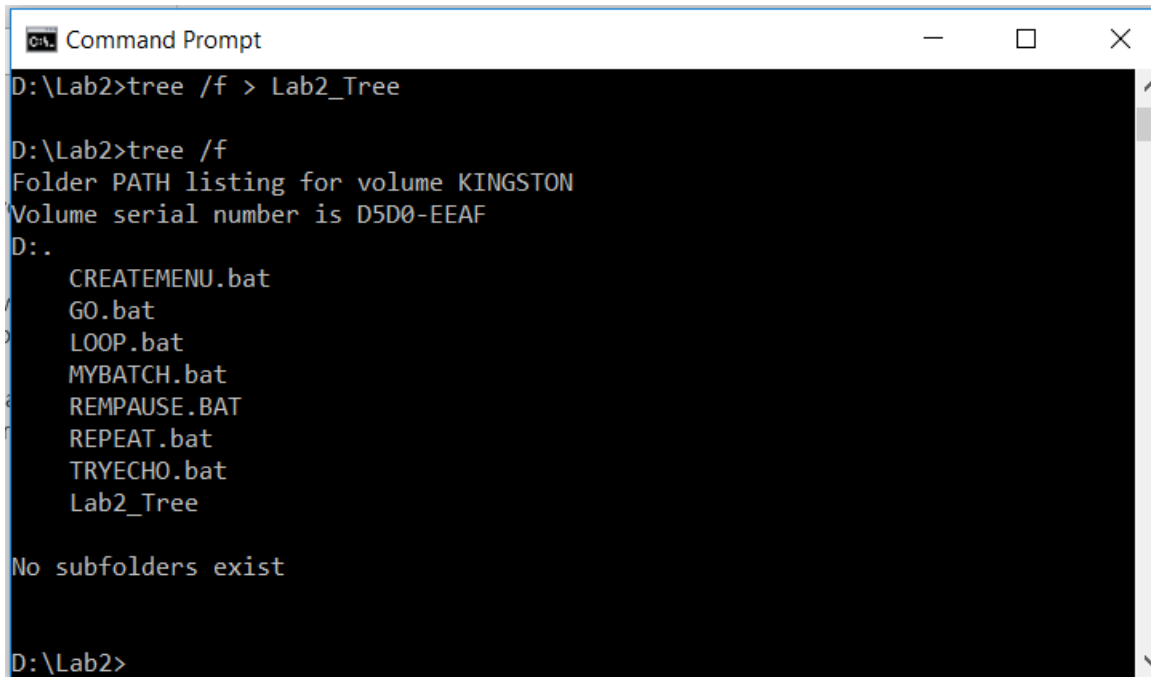**CIS-350**
Infrastructure Technologies

Lab 2 Report Solution

1. Insert *Lab2_Tree* file from p. 8 of the Lab 2 instructions into the space provided or use the *Alt-PrtScr* keys to capture the screen output (window) from command *TYPE Lab2_Tree* on p. 8 and paste that window here.

```
Command Prompt                                    —    □    ×

D:\Lab2>tree /f > Lab2_Tree

D:\Lab2>tree /f
Folder PATH listing for volume KINGSTON
Volume serial number is D5D0-EEAF
D:.
    CREATEMENU.bat
    GO.bat
    LOOP.bat
    MYBATCH.bat
    REMPAUSE.BAT
    REPEAT.bat
    TRYECHO.bat
    Lab2_Tree

No subfolders exist


D:\Lab2>
```

2. Assume that the system prompt displays "C:\>", i.e., your current directory and current drive are the root directory and C drive, respectively. Write a batch file below that will include commands to:

    (a) prevent all commands from displaying on the screen. Also, disable command ECHO OFF from displaying.
    (b) display the following message "My first script file"
    (c) display the directory hierarchy/structure of the C disk (Do not use *DIR*)
    (d) display the directory hierarchy/structure of the C disk with all files (Do not use *DIR*)
    (e) create subdirectory named *LETTERS* in the root directory
    (f) erase subdirectory *BOOKS* from the root directory (assume that *BOOKS* does not have any files in it)
    (g) copy file *loop.bat* to directory *LETTERS*
    (h) pause the screen
    (i) use the piping operation to display the sorted directory and display it one screen at a time (prevent the screen from scrolling off). Need to use two pipes.
    (j) sort data in the descending order coming from file *Names1* and route the output to file *Names1_Sorted*

    The batch file, commands (a) through (j):

    @ECHO OFF
    REM My first script file
    TREE
    TREE /F
    MD LETTERS
    RD BOOKS   **(ERASE BOOKS would erase all files in BOOKS if there were**

          any, but would keep BOOKS directory)

    COPY loop.bat \LETTERS
    PAUSE
    DIR | SORT | MORE
    SORT /r < Names1 > Names1_Sorted

3. Describe step by step what a file named MYSCRIPT does.

    @ECHO OFF
    REM STARTING SCRIPT FILE
    TREE /F
    PAUSE
    DIR
    PAUSE
    MD HANK TOM LISA
    TREE /F
    PAUSE
    COPY *.BAT D:\LAB2\LISA
    TREE /F
    TREE

```
PAUSE
CD LISA
ERASE *.BAT
PAUSE
CD ..
TREE /F
PAUSE
RD HANK TOM LISA
TREE /F
PAUSE
REM CLOSING SCRIPT FILE
```

Assumptions: The prompt D:\LAB2> is displayed. D is the current drive and LAB2 is the current directory just below "\" (the root directory).

Command	Description
@ECHO OFF	Prevents all commands from displaying on the screen. It also prevents the command ECHO OFF from displaying.
REM STARTING SCRIPT FILE	Displays the remark STARTING SCRIPT FILE on the screen.
TREE /F	Displays the directory hierarchy with all files starting with the current directory (LAB2) and below it.
PAUSE	Pauses the screen until the user hits any key. Purpose: to see the effect of the previous command.
DIR	Displays the directory content.
PAUSE	Pauses the screen until the user hits any key. Purpose: to see the effect of the previous command.
MD HANK TOM LISA	Creates three new directories HANK, TOM, and LISA in directory LAB2.
TREE /F	Displays the directory hierarchy with all files starting with the current directory and below it. It will include the three directories created above.
PAUSE	Stops the execution of the batch file and pauses the screen until the user hits a key. Purpose: to see the effect of the previous command.
COPY *.BAT D:\LAB2\LISA	Copies all files with .BAT extension from the current directory (LAB2) to directory LISA created earlier.
TREE /F	Displays the directory hierarchy with all files starting with the current directory and below it. The batch files in directory LISA should also be shown.
TREE	Displays the directory hierarchy starting with the current directory and all subdirectories below it. No files in subdirectories are shown.
PAUSE	Stops the execution of the batch file and pauses the screen until the user hits a key. Purpose: to see the effect of the previous command.
CD LISA	Changes the current directory to LISA. The prompt "D:\LAB2\LISA>" should be displayed.

ERASE *.BAT	Erases all files with extension .BAT from directory LISA.
PAUSE	Stops the execution of the batch file and pauses the screen until the user hits a key. Purpose: to see the effect of the previous command.
CD ..	Returns to the parent directory, which is LAB2. One level up.
TREE /F	Displays the directory hierarchy with all files starting with the current directory and below it. The batch files in directory LISA should not be there anymore.
PAUSE	Stops the execution of the batch file and pauses the screen until the user hits a key. Purpose: to see the effect of the previous command.
RD HANK TOM LISA	Removes three directories HANK, TOM, and LISA from the LAB2 directory.
TREE /F	Displays the directory hierarchy with all files starting with the current directory and below it. The three directories created earlier should not be in LAB2 directory anymore.
PAUSE	Stops the execution of the batch file and pauses the screen until the user hits a key. Purpose: to see the effect of the previous command.
REM CLOSING SCRIPT FILE	Displays the remark CLOSING SCRIPT FILE on the screen.