

## 4CS015 – Portfolio Part -4

**STUDENT NAME:** Kamal Dhital

**STUDENT NUMBER:** 2407046

You will need to complete the workshop and then submit this Word file, complete with your answers, via Canvas, by the end of Semester (week 12).

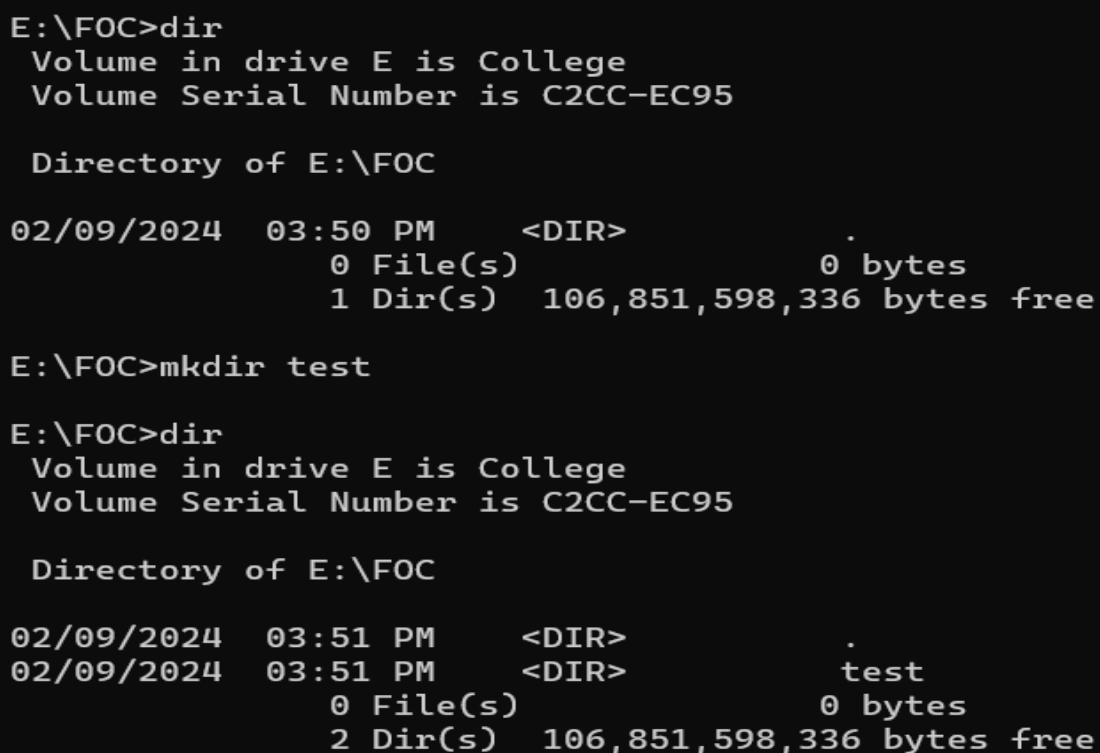
For this assignment (workshop) you will show you how to navigate and create file systems from command prompt in both Windows (os) and Linux (os), also how to create a batch file to be executed in the Windows (os).

**NOTE:** Please make sure you have written your command as well as the screenshot of the commands. Failure to do so will result in marks deduction.

### Task 1 (Windows Command Line)

1. Write a command to Create a directory "test"

**Ans: MKDIR test**



```
E:\FOC>dir
Volume in drive E is College
Volume Serial Number is C2CC-EC95

Directory of E:\FOC

02/09/2024  03:50 PM    <DIR>          .
               0 File(s)                0 bytes
               1 Dir(s)  106,851,598,336 bytes free

E:\FOC>mkdir test

E:\FOC>dir
Volume in drive E is College
Volume Serial Number is C2CC-EC95

Directory of E:\FOC

02/09/2024  03:51 PM    <DIR>          .
02/09/2024  03:51 PM    <DIR>          test
               0 File(s)                0 bytes
               2 Dir(s)  106,851,598,336 bytes free
```

2. Write the command to list all the directories/files inside the directory **test**

ANS:

- `cd test`
- `dir`

```
E:\FOC>cd test

E:\FOC\test>dir
Volume in drive E is College
Volume Serial Number is C2CC-EC95

Directory of E:\FOC\test

02/09/2024  03:51 PM    <DIR>          .
02/09/2024  03:51 PM    <DIR>          ..
               0 File(s)                0 bytes
               2 Dir(s)  106,851,627,008 bytes free
```

3. Create a file "**hello.txt**" containing the word "Hello", inside the test directory.

ANS:

- `echo Hello > hello.txt`
- `dir`

```
E:\FOC\test>echo Hello > hello.txt

E:\FOC\test>dir
Volume in drive E is College
Volume Serial Number is C2CC-EC95

Directory of E:\FOC\test

02/09/2024  03:55 PM    <DIR>          .
02/09/2024  03:51 PM    <DIR>          ..
02/09/2024  03:55 PM                8 hello.txt
               1 File(s)                8 bytes
               2 Dir(s)  106,851,602,432 bytes free
```

4. Display the content of **hello.txt** in the command line.

ANS:

- Type hello.txt

```
E:\FOC\test>type hello.txt
Hello
```

5. Make directory **test1** in the Desktop and copy **hello.txt** from **test** to **test1**

ANS:

- mkdir test1
- copy hello.txt C:\Users\kdhit\Desktop\test1

```
C:\Users\kdhit\Desktop>mkdir test1

C:\Users\kdhit\Desktop>dir
Volume in drive C is SSD
Volume Serial Number is 9E52-4155

Directory of C:\Users\kdhit\Desktop

02/09/2024  03:59 PM    <DIR>          .
02/07/2024  08:09 PM    <DIR>          ..
02/01/2024  07:05 AM                2,234 Discord.lnk
02/08/2024  02:25 PM                624 Kamal_Dhital_2407046.Grd
01/31/2024  07:35 PM                2,451 Personal - Edge.lnk
02/09/2024  03:59 PM    <DIR>          test1
               3 File(s)              5,309 bytes
               3 Dir(s)  402,439,413,760 bytes free
```

```
E:\FOC\test>copy hello.txt C:\Users\kdhit\Desktop\test1
1 file(s) copied.
```

6. Now delete the file **hello.txt** in the current directory

ANS:

- `del hello.txt`

```
E:\FOC\test>del hello.txt

E:\FOC\test>dir
Volume in drive E is College
Volume Serial Number is C2CC-EC95

Directory of E:\FOC\test

02/09/2024  04:03 PM    <DIR>          .
02/09/2024  03:51 PM    <DIR>          ..
               0 File(s)                0 bytes
               2 Dir(s) 106,851,344,384 bytes free
```

7. Write a command to display your current directory.

ANS:

- `cd`

```
E:\FOC\test>cd
E:\FOC\test
```

8. Now rename the file to **hello2.txt**

ANS:

- `rename hello.txt hello2.txt`

```
C:\Users\kdhit\Desktop\test1>rename hello.txt hello2.txt
```

```
C:\Users\kdhit\Desktop\test1>dir
```

```
Volume in drive C is SSD
```

```
Volume Serial Number is 9E52-4155
```

```
Directory of C:\Users\kdhit\Desktop\test1
```

```
02/09/2024  04:07 PM    <DIR>          .
02/09/2024  03:59 PM    <DIR>          ..
02/09/2024  03:55 PM                8 hello2.txt
                1 File(s)                8 bytes
                2 Dir(s)  402,437,582,848 bytes free
```

9. Now navigate outside the directory test.

ANS:

- cd..

```
C:\Users\kdhit\Desktop\test1>cd..
```

```
C:\Users\kdhit\Desktop>cd
```

```
C:\Users\kdhit\Desktop
```

10. Write the command to print the tree structure. It should look something like this:

```
Folder PATH listing for volume Offline
Volume serial number is 0000-0000
U:\TEST
├── test2
│   └── hello2.txt
```

ANS:

- mkdir TEST
- cd test
- mkdir test2
- cd test2
- echo > hello2.txt

- cd..
- cd..
- tree test /f

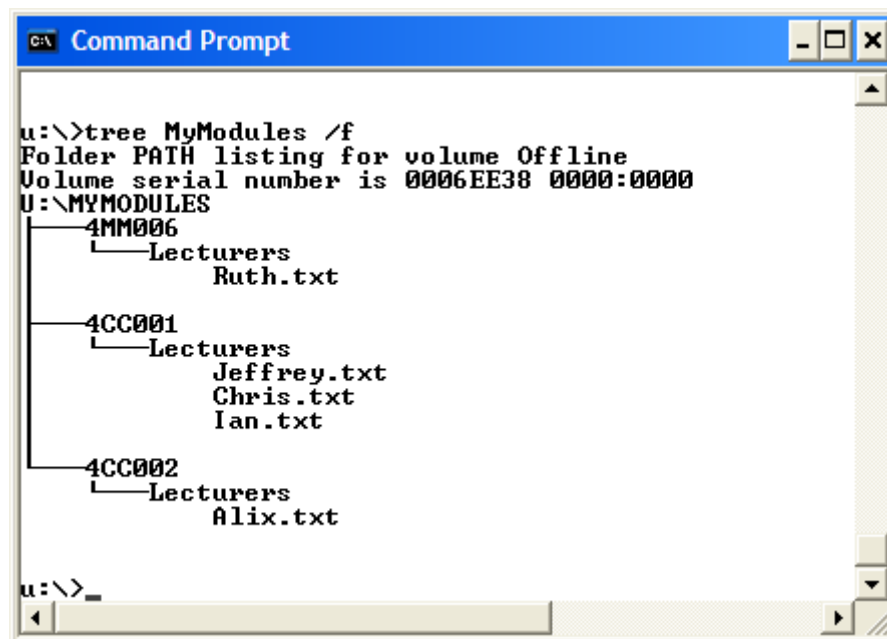
```
C:\Users\kdhit\Desktop>mkdir TEST
C:\Users\kdhit\Desktop>cd test
C:\Users\kdhit\Desktop\TEST>mkdir test2
C:\Users\kdhit\Desktop\TEST>cd test2
C:\Users\kdhit\Desktop\TEST\test2>echo > hello2.txt
C:\Users\kdhit\Desktop\TEST\test2>cd..
C:\Users\kdhit\Desktop\TEST>cd..
C:\Users\kdhit\Desktop>tree test /f
Folder PATH listing for volume SSD
Volume serial number is 9E52-4155
C:\USERS\KDHIT\DESKTOP\TEST
├──test2
│   └──hello2.txt
```

## Task 2

Create the following directory structure and paste it after this picture. (15 marks):

**Note: MYMODULES must be inside <your\_name> directory.**

**Make a directory with your name on the desktop and navigate to the directory before you display the following structure.**



```
u:\>tree MyModules /f
Folder PATH listing for volume Offline
Volume serial number is 0006EE38 0000:0000
U:\MYMODULES
├── 4MM006
│   └── Lecturers
│       └── Ruth.txt
├── 4CC001
│   └── Lecturers
│       ├── Jeffrey.txt
│       ├── Chris.txt
│       └── Ian.txt
└── 4CC002
    └── Lecturers
        └── Alix.txt

u:\>_
```

[Insert your picture here]

- mkdir Kamal\_Dhital
- cd Kamal\_Dhital
- mkdir MYMODULES
- cd mymodules
- mkdir 4MM006 4CC001 4CC002
- cd 4MM006
- mkdir Lecturers
- cd Lecturers
- echo > Ruth.txt
- cd..
- cd..
- cd 4CC001
- mkdir Lecturers
- cd Lecturers
- echo > Jeffrey.txt

- echo > Chris.txt
- echo > Ian.txt
- cd..
- cd..
- cd 4CC002
- mkdir Lecturers
- cd Lecturers
- echo > Alix.txt
- cd..
- cd..
- cd..
- tree mymodules /f



```
C:\Users\kdhit\Desktop>mkdir Kamal_Dhital
C:\Users\kdhit\Desktop>cd Kamal_Dhital
C:\Users\kdhit\Desktop\Kamal_Dhital>mkdir MYMODULES
C:\Users\kdhit\Desktop\Kamal_Dhital>cd mymodules
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES>mkdir 4MM006 4CC001 4CC002
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES>cd 4MM006
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4MM006>mkdir Lecturers
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4MM006>cd lecturers
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4MM006\Lecturers>echo > Ruth.txt
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4MM006\Lecturers>cd..
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4MM006>cd..
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES>cd 4CC001
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4CC001>mkdir Lecturers
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4CC001>cd lecturers
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4CC001\Lecturers>echo > Jeffrey.txt
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4CC001\Lecturers>echo > Chris.txt
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4CC001\Lecturers>echo > Ian.txt
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4CC001\Lecturers>cd..
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4CC001>cd..
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES>cd 4CC002
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4CC002>mkdir Lecturers
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4CC002>cd lecturers
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4CC002\Lecturers>echo > Alix.txt
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4CC002\Lecturers>cd..
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES\4CC002>cd..
C:\Users\kdhit\Desktop\Kamal_Dhital\MYMODULES>cd..
```

```
C:\Users\kdhit\Desktop\Kamal_Dhital>tree mymodules /f
Folder PATH listing for volume SSD
Volume serial number is 9E52-4155
C:\USERS\KDHIT\DESKTOP\KAMAL_DHITAL\MYMODULES
```

```
├──4CC001
│   └──Lecturers
│       Chris.txt
│       Ian.txt
│       Jeffrey.txt
```

```
├──4CC002
│   └──Lecturers
│       Alix.txt
```

```
└──4MM006
    └──Lecturers
        Ruth.txt
```

### Task 3(Linux terminal)

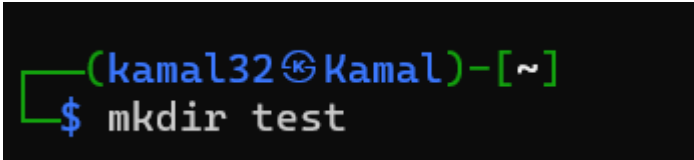
(10 marks)

Now, Boot into Linux operating system in virtualbox or Windows-SubSystem for Linux(On Windows)

1. Write a command to Create a directory "test"

ANS:

- Mkdir

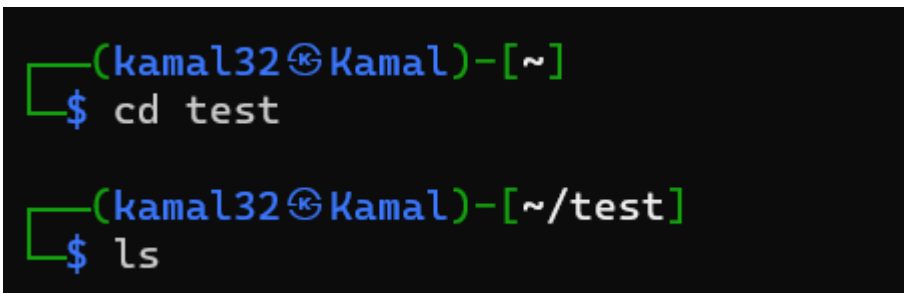
A terminal window with a dark background. The prompt is (kamal32@Kamal)-[~]. The command mkdir test has been entered and executed.

```
(kamal32@Kamal)-[~]  
$ mkdir test
```

2. Write the command to list all the directories/files inside the directory test

ANS:

- Cd test
- Ls

A terminal window with a dark background. The prompt is (kamal32@Kamal)-[~]. The command cd test is entered and executed. The prompt changes to (kamal32@Kamal)-[~/test]. The command ls is entered and executed.

```
(kamal32@Kamal)-[~]  
$ cd test  
  
(kamal32@Kamal)-[~/test]  
$ ls
```

3. Create a file "hello.txt" containing the word "Hello", inside the test directory.

ANS:

- echo Hello > hello.txt
- ls

```
(kama132@Kama1)-[~/test]
$ echo Hello > hello.txt

(kama132@Kama1)-[~/test]
$ ls
hello.txt
```

4. Display the content of **hello.txt** in the command line.

ANS:

- `more hello.txt`

```
(kama132@Kama1)-[~/test]
$ more hello.txt
Hello
```

5. Make directory **test1** in the Desktop and copy **hello.txt** from **test** to **test1**

ANS:

- `mkdir test1` – in desktop to create test1 directory
- `cp hello.txt /home/kama132/Desktop/test1`
- `cd`
- `cd Desktop`
- `cd test1`
- `ls`

```
(kama132@Kama1)-[~/Desktop]
$ mkdir test1
```

```
(kama132@Kama1)-[~/test]
$ cp hello.txt /home/kama132/Desktop/test1
```

```
(kamal32@Kamal)-[~]
$ cd Desktop

(kamal32@Kamal)-[~/Desktop]
$ ls
test1

(kamal32@Kamal)-[~/Desktop]
$ cd test1

(kamal32@Kamal)-[~/Desktop/test1]
$ ls
hello.txt
```

6. Now delete the file **hello.txt** in the current directory

ANS:

- ls
- rm hello.txt
- ls

```
(kamal32@Kamal)-[~/test]
$ ls
hello.txt

(kamal32@Kamal)-[~/test]
$ rm hello.txt

(kamal32@Kamal)-[~/test]
$ ls
```

7. Write a command to display your current directory.

ANS:

- `pwd`

```
(kamal32@Kamal)~[~/Desktop/test1]
$ pwd
/home/kamal32/Desktop/test1
```

8. Now rename the file to **hello2.txt**

ANS:

- `ls`
- `mv hello.txt hello2.txt`
- `ls`

```
(kamal32@Kamal)~[~/Desktop/test1]
$ ls
hello.txt

(kamal32@Kamal)~[~/Desktop/test1]
$ mv hello.txt hello2.txt

(kamal32@Kamal)~[~/Desktop/test1]
$ ls
hello2.txt
```

9. Now navigate outside the directory test.

ANS:

- `cd ..`

```
(kama132@Kama1)-[~/Desktop/test1]  
$ cd ..
```

```
(kama132@Kama1)-[~/Desktop]  
$
```

10. Write the command to print the tree structure.

ANS:

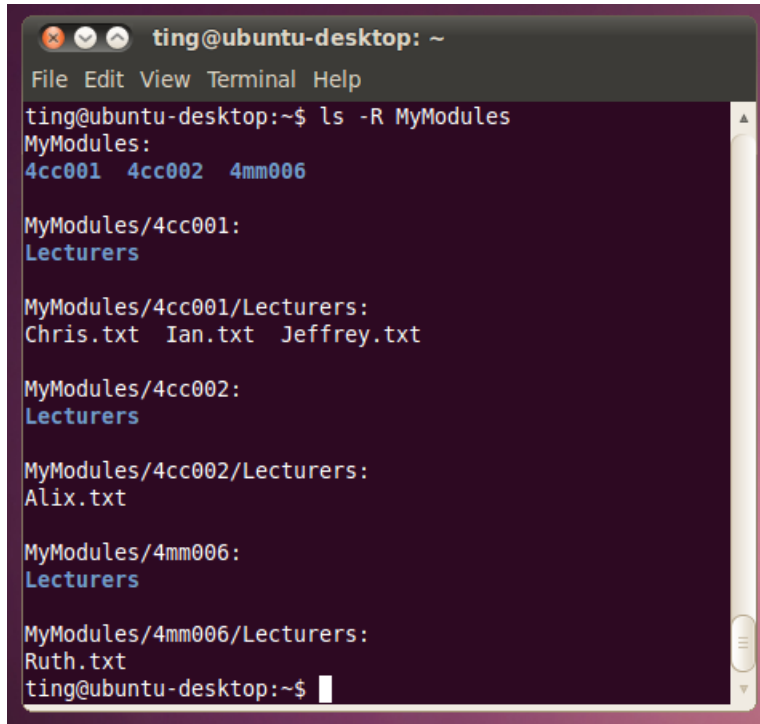
- ls -R TEST

```
(kama132@Kama1)-[~/Desktop]  
$ ls -R TEST  
TEST:  
test1  
  
TEST/test1:  
hello2.txt
```

## Task 4

Create the following directory structure (identical to the one that you created in Windows Command Prompt):

**Note: MYMODULES must be inside <your\_name> directory.**

A terminal window titled 'ting@ubuntu-desktop: ~' with a menu bar (File, Edit, View, Terminal, Help). The user runs the command 'ls -R MyModules'. The output shows a recursive listing of the 'MyModules' directory. It contains three subdirectories: '4cc001', '4cc002', and '4mm006'. Each subdirectory contains a 'Lecturers' directory. 'MyModules/4cc001/Lecturers' contains 'Chris.txt', 'Ian.txt', and 'Jeffrey.txt'. 'MyModules/4cc002/Lecturers' contains 'Alix.txt'. 'MyModules/4mm006/Lecturers' contains 'Ruth.txt'. The terminal prompt returns to 'ting@ubuntu-desktop:~\$' at the bottom.

```
ting@ubuntu-desktop: ~  
File Edit View Terminal Help  
ting@ubuntu-desktop:~$ ls -R MyModules  
MyModules:  
4cc001 4cc002 4mm006  
  
MyModules/4cc001:  
Lecturers  
  
MyModules/4cc001/Lecturers:  
Chris.txt Ian.txt Jeffrey.txt  
  
MyModules/4cc002:  
Lecturers  
  
MyModules/4cc002/Lecturers:  
Alix.txt  
  
MyModules/4mm006:  
Lecturers  
  
MyModules/4mm006/Lecturers:  
Ruth.txt  
ting@ubuntu-desktop:~$
```

and insert it below (15 marks):

[Insert your picture here]



**ANS:**

- mkdir Kamal\_Dhital
- cd Kamal\_Dhital
- mkdir MyModules
- cd MyModules
- mkdir 4CC001 4CC002 4MM006
- cd 4CC001
- mkdir Lecturers
- cd Lecturers
- echo > Chris.txt
- echo > Ian.txt
- echo > Jeffrey.txt
- cd ..
- cd ..
- cd 4CC002
- mkdir Lecturers
- cd Lecturers
- echo > Alix.txt
- cd ..
- cd ..
- cd 4MM006
- mkdir Lecturers
- cd Lecturers
- echo > Ruth.txt
- cd ..
- cd ..
- cd ..
- ls -R MyModules

```
(kamal32@Kamal)~[~/Desktop]
$ mkdir Kamal_Dhital

(kamal32@Kamal)~[~/Desktop]
$ cd Kamal_Dhital

(kamal32@Kamal)~[~/Desktop/Kamal_Dhital]
$ mkdir MyModules

(kamal32@Kamal)~[~/Desktop/Kamal_Dhital]
$ cd MyModules

(kamal32@Kamal)~[~/Desktop/Kamal_Dhital/MyModules]
$ mkdir 4CC001 4CC002 4MM006

(kamal32@Kamal)~[~/Desktop/Kamal_Dhital/MyModules]
$ cd 4CC001

(kamal32@Kamal)~[~/Desktop/Kamal_Dhital/MyModules/4CC001]
$ mkdir Lecturers

(kamal32@Kamal)~[~/Desktop/Kamal_Dhital/MyModules/4CC001]
$ cd Lecturers

(kamal32@Kamal)~[~/Desktop/Kamal_Dhital/MyModules/4CC001/Lecturers]
$ echo > Chris.txt

(kamal32@Kamal)~[~/Desktop/Kamal_Dhital/MyModules/4CC001/Lecturers]
$ echo > Ian.txt

(kamal32@Kamal)~[~/Desktop/Kamal_Dhital/MyModules/4CC001/Lecturers]
$ echo > Jeffrey.txt
```

```
(kamal32@Kamal)~[~/Desktop/Kamal_Dhital/MyModules/4CC001/Lecturers]
$ cd ..

(kamal32@Kamal)~[~/Desktop/Kamal_Dhital/MyModules/4CC001]
$ cd ..

(kamal32@Kamal)~[~/Desktop/Kamal_Dhital/MyModules]
$ cd 4CC002

(kamal32@Kamal)~[~/Desktop/Kamal_Dhital/MyModules/4CC002]
$ mkdir Lecturers

(kamal32@Kamal)~[~/Desktop/Kamal_Dhital/MyModules/4CC002]
$ cd Lecturers
```

```
(kamal32@Kamal)-[~/Desktop/Kamal_Dhital/MyModules/4CC002/Lecturers]
$ echo > Alix.txt

(kamal32@Kamal)-[~/Desktop/Kamal_Dhital/MyModules/4CC002/Lecturers]
$ cd ..

(kamal32@Kamal)-[~/Desktop/Kamal_Dhital/MyModules/4CC002]
$ cd ..

(kamal32@Kamal)-[~/Desktop/Kamal_Dhital/MyModules]
$ cd 4MM006

(kamal32@Kamal)-[~/Desktop/Kamal_Dhital/MyModules/4MM006]
$ mkdir Lecturers

(kamal32@Kamal)-[~/Desktop/Kamal_Dhital/MyModules/4MM006]
$ cd Lecturers

(kamal32@Kamal)-[~/Desktop/Kamal_Dhital/MyModules/4MM006/Lecturers]
$ echo > Ruth.txt

(kamal32@Kamal)-[~/Desktop/Kamal_Dhital/MyModules/4MM006/Lecturers]
$ cd ..

(kamal32@Kamal)-[~/Desktop/Kamal_Dhital/MyModules/4MM006]
$ cd ..

(kamal32@Kamal)-[~/Desktop/Kamal_Dhital/MyModules]
$ cd ..
```

```
(kamal32@Kamal)-[~/Desktop/Kamal_Dhital]
$ ls -R MyModules
MyModules:
4CC001  4CC002  4MM006

MyModules/4CC001:
Lecturers

MyModules/4CC001/Lecturers:
Chris.txt  Ian.txt  Jeffrey.txt

MyModules/4CC002:
Lecturers

MyModules/4CC002/Lecturers:
Alix.txt

MyModules/4MM006:
Lecturers

MyModules/4MM006/Lecturers:
Ruth.txt
```

## **Task 5**

### **Batch file material (50 marks in total)**

Create a batch file (windows) **YourNumber.bat** from notepad (or your preferred text editor).

The batch file should create a directory structure similar to the one create for the first section of this assignment but the directory entries should be provided from an input request from the batch file itself.

You should be able to create a root directory and directory structure and populate it if required. The batch file program will ask for names (**input directory names and file names**) to be used and have some form of **error checking** (empty – incorrect character, length, etc.) You can add other features such as being able to edit the new structure from within the batch file program (**find and change a directory name**).

Run batch file from windows prompt: YourNumber.bat <enter>

[Insert your picture(s) here] – Directory structure created / menu of batch file (inputs and output when batch file is executed) (10 marks)

```
Microsoft Windows [Version 10.0.22635.3130]  
(c) Microsoft Corporation. All rights reserved.
```

```
C:\Windows\System32>E:
```

```
E:\>cd "Semester - 1\Fundamentals of Computing\Coursework\Window And Linux"
```

```
E:\Semester - 1\Fundamentals of Computing\Coursework\Window And Linux>2407046.bat
```

```
Enter Your Full Name: Kamal_Dhital
```

```
Enter your drive name where your folder will be saved: E
```

```
-----  
Your root folder will exist in directory E:\Kamal_Dhital  
-----
```

```
Enter the root directory name: MYMODULES
```

```
Root Directory Created "MYMODULES"
```

1. Add Directory
2. Add File
3. Find And Change Directory
4. Display Structure
5. Exit

```
Enter your choice from (1-5): 1
```

```
Enter new directory name: 4CC001
```

```
"4CC001" directory created successfully.
```

1. Add Directory
2. Add File
3. Find And Change Directory
4. Display Structure
5. Exit

```
Enter your choice from (1-5): 1
```

```
Enter new directory name: 4CC002
```

```
"4CC002" directory created successfully.
```

1. Add Directory
2. Add File
3. Find And Change Directory
4. Display Structure
5. Exit

```
Enter your choice from (1-5): 1
```

```
Enter new directory name: 4MM006
```

```
"4MM006" directory created successfully.
```

1. Add Directory
2. Add File
3. Find And Change Directory
4. Display Structure
5. Exit

```
Enter your choice from (1-5): 1
```

```
Enter new directory name: 4CC001\Lecturers
```

```
"4CC001\Lecturers" directory created successfully.
```

1. Add Directory
2. Add File
3. Find And Change Directory
4. Display Structure
5. Exit

```
Enter your choice from (1-5): 1
Enter new directory name: 4CC002\Lecturers
"4CC002\Lecturers" directory created successfully.
1. Add Directory
2. Add File
3. Find And Change Directory
4. Display Structure
5. Exit
Enter your choice from (1-5): 1
Enter new directory name: 4MM006\Lecturers
"4MM006\Lecturers" directory created successfully.
1. Add Directory
2. Add File
3. Find And Change Directory
4. Display Structure
5. Exit
Enter your choice from (1-5): 2
Enter new file name: Chris.txt
Enter directory name where your file should be kept: 4CC001\Lecturers
"Chris.txt" file created successfully.
1. Add Directory
2. Add File
3. Find And Change Directory
4. Display Structure
5. Exit
Enter your choice from (1-5): 2
Enter new file name: Ian.txt
Enter directory name where your file should be kept: 4CC001\Lecturers
"Ian.txt" file created successfully.
```

```
1. Add Directory
2. Add File
3. Find And Change Directory
4. Display Structure
5. Exit
Enter your choice from (1-5): 2
Enter new file name: Jeffery.txt
Enter directory name where your file should be kept: 4CC001\Lecturers
"Jeffery.txt" file created successfully.
1. Add Directory
2. Add File
3. Find And Change Directory
4. Display Structure
5. Exit
Enter your choice from (1-5): 2
Enter new file name: Alix.txt
Enter directory name where your file should be kept: 4CC002\Lecturers
"Alix.txt" file created successfully.
1. Add Directory
2. Add File
3. Find And Change Directory
4. Display Structure
5. Exit
Enter your choice from (1-5): 2
Enter new file name: Ruth.txt
Enter directory name where your file should be kept: 4MM006\Lecturers
"Ruth.txt" file created successfully.
```

```

1. Add Directory
2. Add File
3. Find And Change Directory
4. Display Structure
5. Exit
Enter your choice from (1-5): 4
Folder PATH listing for volume College
Volume serial number is C2CC-EC95
E:\KAMAL_DHITAL\MYMODULES
├──4CC001
│   ├──Lecturers
│   │   ├──Chris.txt
│   │   ├──Ian.txt
│   │   └──Jeffery.txt
├──4CC002
│   ├──Lecturers
│   │   └──Alix.txt
└──4MM006
    ├──Lecturers
    │   └──Ruth.txt

Press any key to continue . . .
1. Add Directory
2. Add File
3. Find And Change Directory
4. Display Structure
5. Exit
Enter your choice from (1-5): 5
Press any key to continue . . .

```

[Insert your text here] – Batch file listing (script)(40 marks)

I have my 2407046.bat file in E:\Semester - 1\Fundamentals of Computing\Coursework\Window And Linux\2407046.bat

Navigating to the file through window prompt



- E:
- cd "Semester - 1\Fundamentals of Computing\Coursework\Window And Linux"
- 2407046.bat

After this My Program Start Running

Here is my Batch File Script:

```
@echo off
```

Title Files and Folder Creator

```
set /p full_name="Enter Your Full Name: "
```

```
:drive_check
```

```
set /p drive="Enter your drive name where your folder will be saved: "
```

```
if not exist %drive%: (
```

```
    echo Drive %drive% does not exist. Please enter a valid drive letter.
```

```
    goto :drive_check
```

```
)
```

```
cd /d "%drive%:\"
```

```
mkdir "%full_name%"
```

```
cd "%full_name%"
```

```
echo -----
```

```
echo Your root folder will exist in directory %CD%
```

```
echo -----
```

```
call :create_root_directory
```

```
:create_root_directory
```

```
set /p root_directory="Enter the root directory name: "
```

```
if exist "%root_directory%" (
```

```
    echo Root Directory "%root_directory%" exists.
```

```
    call :create_root_directory
```

```
) else (
```

```
    mkdir "%root_directory%"
```

```
    echo Root Directory Created "%root_directory%"
```

```
)
```

```
:sub_menu
```

```
echo 1. Add Directory
```

```
echo 2. Add File
```

```
echo 3. Find And Change Directory
```

```
echo 4. Display Structure
```

```
echo 5. Exit
```

```
set /p userChoice="Enter your choice from (1-5): "
```

```
if "%userChoice%"=="1" (
```

```
    call :add_new_directory
```

```
) else if "%userChoice%"=="2" (
```

```
    call :add_new_file
) else if "%userChoice%"=="3" (
    call :find_and_change_directory
) else if "%userChoice%"=="4" (
    call :display_directory_structure
) else if "%userChoice%"=="5" (
    call :EndOfFile
) else (
    echo Invalid Choice !!! Please Try Again !!!
    goto :sub_menu
)
```

```
:add_new_directory
set /p new_directory="Enter new directory name: "
if not defined new_directory (
    echo Error: Directory name cannot be empty. Please try again.
    goto :add_new_directory
)
if exist "%root_directory%\%new_directory%" (
    echo "%new_directory%" already exists.
) else (
    mkdir "%root_directory%\%new_directory%"
    echo "%new_directory%" directory created successfully.
)
goto :sub_menu
```

```
:add_new_file

set /p new_file="Enter new file name: "

if not defined new_file (

    echo Error: File name cannot be empty. Please try again.

    goto :add_new_file

)

:directory_check

set /p directory="Enter directory name where your file should be kept: "

if not defined directory (

    echo Error: Directory name cannot be empty. Please try again.

    goto :directory_check

)

if exist "%root_directory%\%directory%" (

    if exist "%root_directory%\%directory%\%new_file%" (

        echo "%new_file%" already exists.

    ) else (

        type nul > "%root_directory%\%directory%\%new_file%"

        echo "%new_file%" file created successfully.

    )

) else (

    echo "%directory%" directory doesnot exists

    type nul > "%root_directory%\%new_file%"

    echo Your file is Saved on Root directory

)

goto :sub_menu
```

```
:find_and_change_directory

set /p old_directory="Enter the old directory name: "

if not defined old_directory (

    echo Error: Directory name cannot be empty. Please try again.

    goto :find_and_change_directory

)

:new_changed_folder

set /p new_changed_directory="Enter the new directory name: "

if not defined new_changed_directory (

    echo Error: Directory name cannot be empty. Please try again.

    goto :new_changed_folder

)

if exist "%root_directory%\%old_directory%" (

    ren "%root_directory%\%old_directory%" "%new_directory%"

    echo Directory "%old_directory%" renamed to "%new_directory%".

) else (

    echo Directory "%old_directory%" does not exist.

)

goto :sub_menu

:display_directory_structure

tree "%root_directory%" /f

pause

goto :sub_menu

:EndOfFile
```

pause

exit