## 4CS015 – Portfolio Task #4

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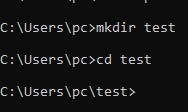
You will need to complete the workshop and then submit this Word file, complete with your answers, via Canvas, by the end of Semester (week 12).

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**"



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

**Text

Description automatically generated**

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

Text

Description automatically generated

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

Text

Description automatically generated

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

**Text

Description automatically generated**

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

Text

Description automatically generated

1. Write a command to display your current directory.

Text

Description automatically generated

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

**Text

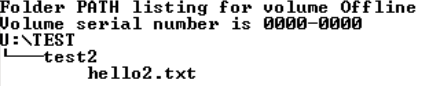
Description automatically generated**

1. Now navigate outside the directory test.

Text

Description automatically generated

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



Text

Description automatically generated

**Task 2**

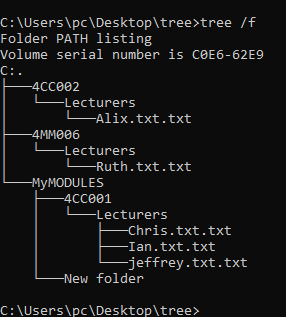
Create the following directory structure and paste it after this picture. (15 marks):

**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.**

Graphical user interface, text, application

Description automatically generated



**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**"



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

**Text

Description automatically generated**

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

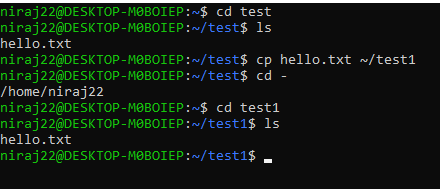
Graphical user interface, text

Description automatically generated with medium confidence

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



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

****

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

Text

Description automatically generated with medium confidence

1. Write a command to display your current directory.

Graphical user interface, text

Description automatically generated

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

**Text

Description automatically generated**

1. Now navigate outside the directory test.

Text

Description automatically generated

1. Write the command to print the tree structure.

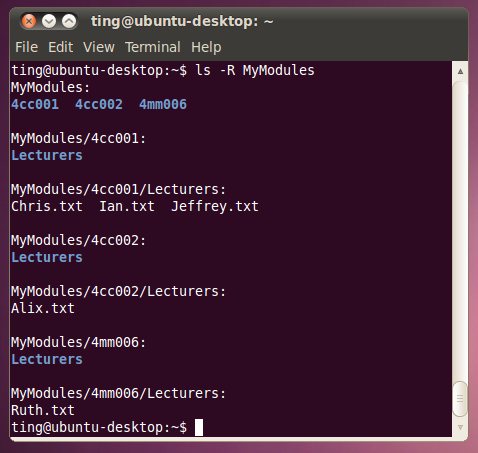
A picture containing text

Description automatically generated

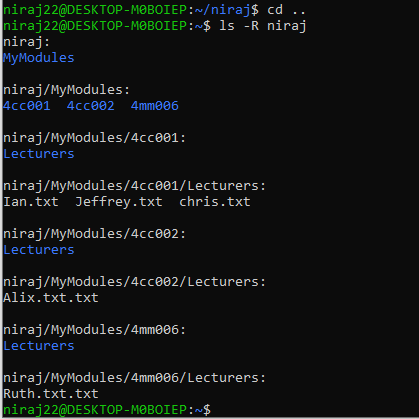
**Task 4**

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

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



and insert it below (15 marks):



**Task 5**

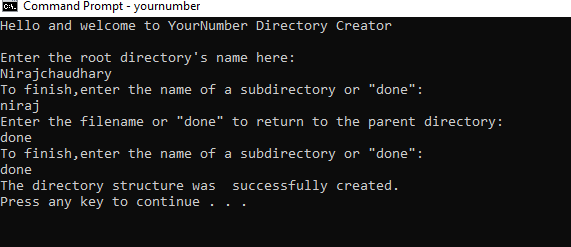
**Batch file material (50 marks in total)**

Create a batch file (windows) **YourNumber.bat** from notepad (or your preferred text editor). Create this program on your home drive (or portable drive – USB) ready for execution.

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>



Text

Description automatically generated

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

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

@echo off

cls

echo Hello and welcome to YourNumber Directory Creator

echo.

:root\_dir

echo Enter the root directory's name here:

set /p root=

if "%root%"=="" (

echo Error: Please enter a valid root directory name.

goto root\_dir

)

if not exist "%root%" md "%root%"

cd %root%

:sub\_dir

echo To finish,enter the name of a subdirectory or "done":

set /p sub=

if "%sub%"=="done" goto end

if "%sub%"=="" (

echo Error: Please enter a valid sub-directory name.

goto sub\_dir

)

if not exist "%sub%" md "%sub%"

cd %sub%

:file

echo Enter the filename or "done" to return to the parent directory:

set /p file=

if "%file%"=="done" (

cd ..

goto sub\_dir

)

if "%file%"=="" (

echo Error: Please give the file a meaningful name.

goto file

)

echo Some content > "%file%.txt"

goto file

:end

echo The directory structure was successfully created.

Pause

Ans: These is a window batch script that creates and renames directories and files. While the script is run, it clears the command prompt and displays a welcome message with two options. This is “create” and “rename”. After user is asked to enter the first choice. If the user selects ”create” the script wants prompt for the name of the directory to be created. Its path of the name of a sub-directory to be created in it and the name and content of a file to be created within the sub-directory. It also makes the directory, sub-directory, and file before returning to the parent directory. But the user selects “rename”, the script will prompt the user for the name of the directory or file to be renamed as well as the new name. The directory or file is then renamed and a message suggesting that it has been renamed is display.