## 4CS015 – Portfolio Task #4

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**STUDENT NUMBER**: 2227486

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

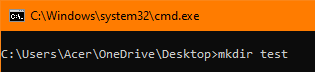
For this assignment (workshop) you will show how to navigate and create file systems from command prompt in both Windows (os) and Linux(os), also how to make a batch file to be executed in the Windows (os).

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

**Task 1 (Windows Command Line)**

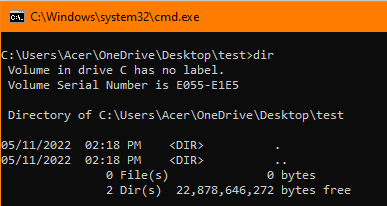
1. Write a command to create a directory "**test**"

mkdir test



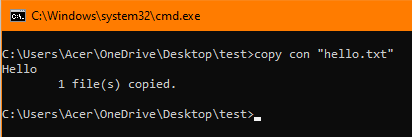
1. Write the command to list all the directories/files inside the directory **test**

dir test



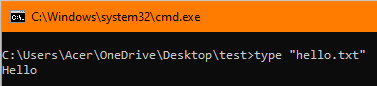
1. Create a file "**hello.txt**" containing the word "Hello", inside the test directory.

copy con "hello.txt"  
Hello  
***#Ctrl+c***



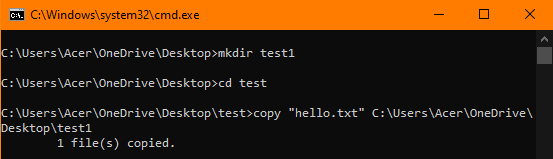
1. Display the content of **hello.txt** in the command line.

type “hello.txt”



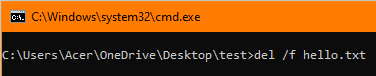
1. Make directory **test1 on** the Desktop and copy **hello.txt** from **test** to **test1**

mkdir test1  
cd test  
copy "hello.txt" C:\Users\Acer\OneDrive\Desktop\test1

****

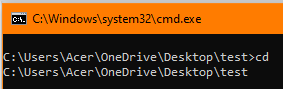
1. Now delete the file **hello.txt** in the current directory

del /f hello.txt



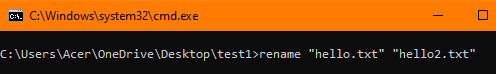
1. Write a command to display your current directory.

cd



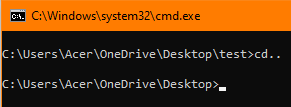
1. Now rename the file to **hello2.txt**

rename "hello.txt" "hello2.txt"

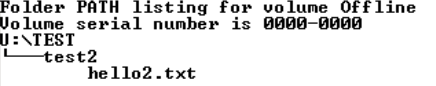


1. Now navigate outside the directory test.

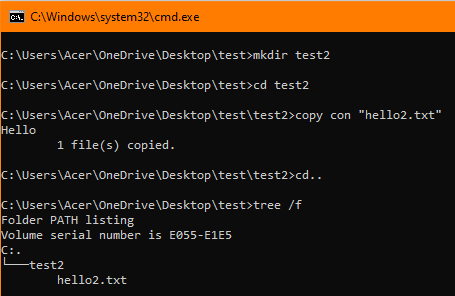
cd..



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



mkdir test2  
cd test2  
copy con “hello2.txt”  
Hello  
***#Ctrl+c***  
cd..  
tree /f

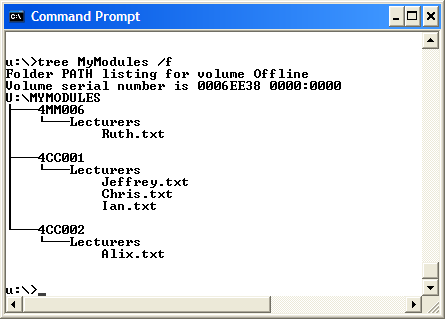


**Task 2**

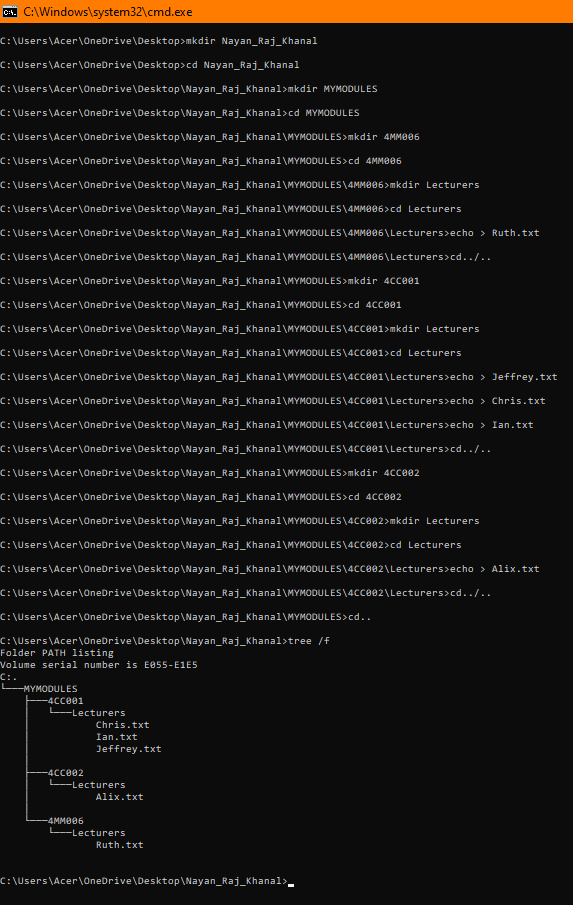
Create the following directory structure and paste it after this picture. (15 marks):

**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.**



[Insert your picture here]



***\*Commands:\****

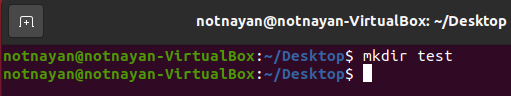
mkdir Nayan\_Raj\_Khanal  
cd Nayan\_Raj\_Khanal  
mkdir MYMODULES  
cd MYMODULES  
mkdir 4MM006  
cd 4MM006  
mkdir Lecturers  
cd Lecturers  
echo > Ruth.txt  
cd../..  
mkdir 4CC001  
cd 4CC001  
mkdir Lecturers  
cd Leturers  
echo > Jeffery.txt  
echo > Chris.txt  
echo > Ian.txt  
cd../..  
mkdir 4CC002  
cd 4CC002  
mkdir Lecturers  
cd Lecturers  
echo > Alix.txt  
cd../..  
cd..  
tree /f

**Task 3(Linux terminal)** (10 marks)

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

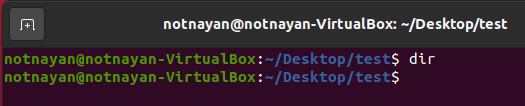
1. Write a command to create a directory "**test**"

mkdir test



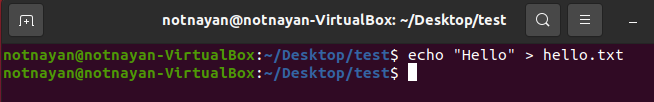
1. Write the command to list all the directories/files inside the directory **test**

dir



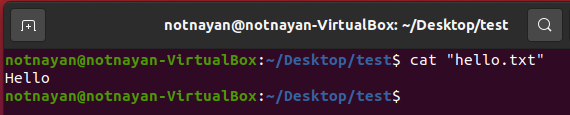
1. Create a file "**hello.txt**" containing the word "Hello", inside the test directory.

echo “Hello” > hello.txt



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

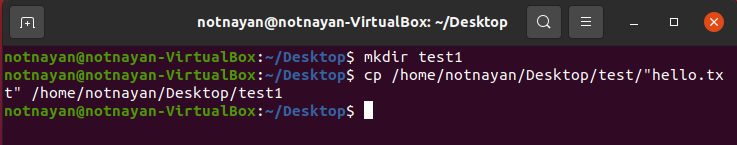
cat “hello.txt”



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

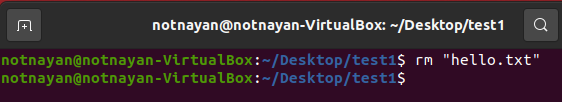
mkdir test1

cp /home/notnayan/Desktop/test/”hello.txt” /home/notnayan/Desktop/test1

****

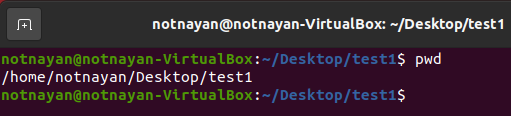
1. Now delete the file **hello.txt** in the current directory

rm “hello.txt”



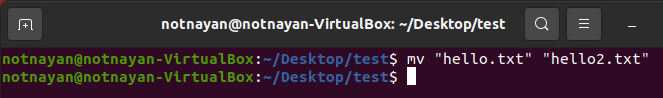
1. Write a command to display your current directory.

pwd



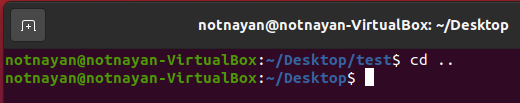
1. Now rename the file to **hello2.txt**

mv “hello.txt” “hello2.txt”



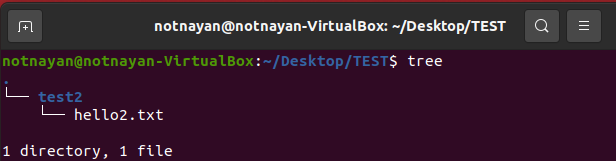
1. Now navigate outside the directory test.

cd ..



1. Write the command to print the tree structure.

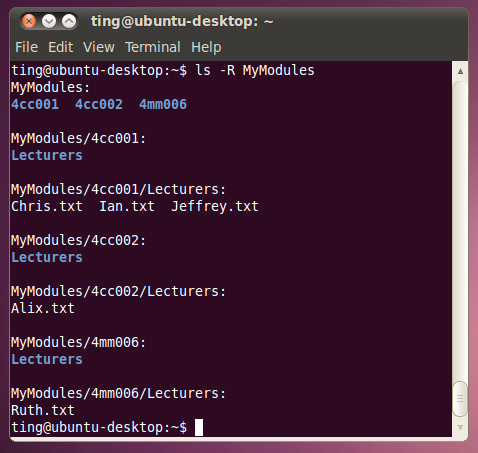
tree



**Task 4**

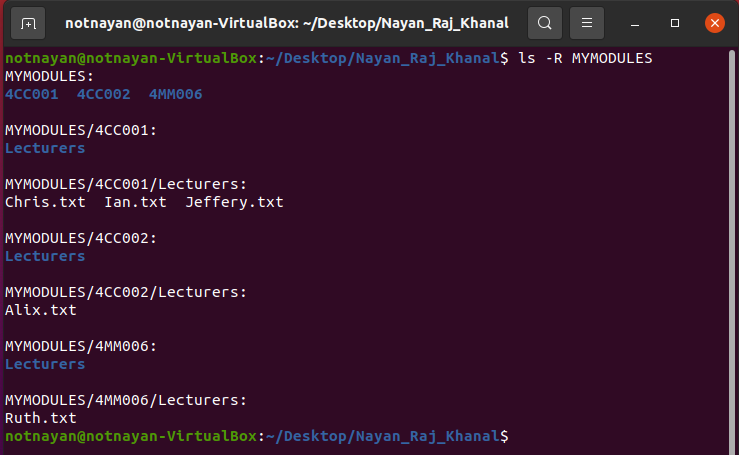
Create the following directory structure (identical to the one that you created in Windows Command Prompt):

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



and insert it below (15 marks):

[Insert your picture here]



***\*Commands:\****

mkdir Nayan\_Raj\_Khanal  
cd Nayan\_Raj\_Khanal  
mkdir MYMODULES  
cd MYMODULES  
mkdir 4MM006  
cd 4MM006  
mkdir Lecturers  
cd Lecturers  
touch Ruth.txt  
cd ../..  
mkdir 4CC001  
cd 4CC001  
mkdir Lecturers  
cd Leturers  
touch Jeffery.txt  
touch Chris.txt  
touchIan.txt  
cd ../..  
mkdir 4CC002  
cd 4CC002  
mkdir Lecturers  
cd Lecturers  
touch Alix.txt  
cd ../..  
cd ..  
ls -R MYMODULES

**Task 5**

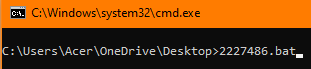
**Batch file material (50 marks in total)**

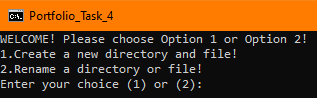
Create a batch file (windows) **YourNumber.bat** from notepad (or your preferred text editor). Create this program on your home drive (or portable drive – USB) ready for execution.

The batch file should create a directory structure similar to the one created 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**).

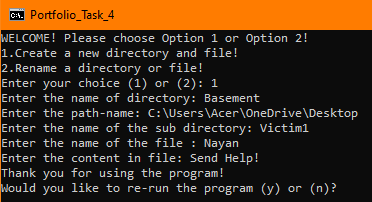
Run batch file from windows prompt: YourNumber.bat <enter>

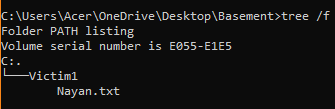




[Insert your picture(s) here] – Directory structure created / menu of batch file (inputs and output when batch file is executed) (10 marks)

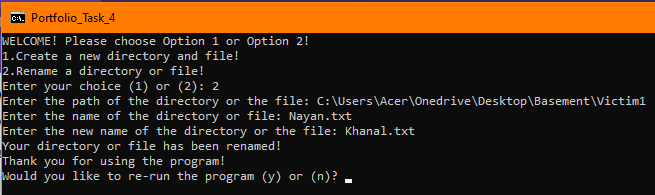
1. Create:

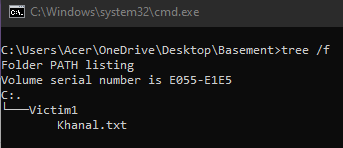




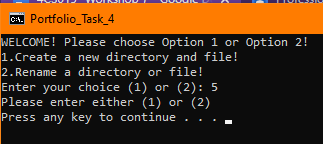


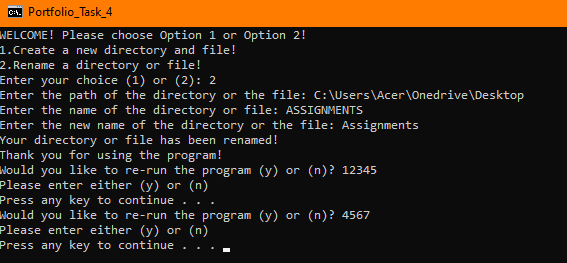
1. Rename:





1. Wrong Input:





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

@echo off

cls

title Portfolio\_Task\_4

:welcome

cls

@echo WELCOME! Please choose Option 1 or Option 2!

@echo 1.Create a new directory and file!

@echo 2.Rename a directory or file!

set /p choice= Enter your choice (1) or (2):

if %choice%==1 Call :create Exit/b

if %choice%==2 Call :rename Exit/b

echo Please enter either (1) or (2)

pause

Call :welcome

:re-run

set /p re-run=Would you like to re-run the program (y) or (n)?

if %re-run%==y Call :welcome

if %re-run%==n exit

echo Please enter either (y) or (n)

pause

Call :re-run

:create

set /p directory=Enter the name of directory:

set /p path=Enter the path-name:

cd %path%

mkdir %directory%

cd %directory%

set /p sub=Enter the name of the sub directory:

mkdir %sub%

cd %sub%

set /p file=Enter the name of the file :

set /p content=Enter the content in file:

echo %content% > %file%.txt

cd../..

@echo Thank you for using the program!

Call :re-run

:rename

set /p path=Enter the path of the directory or the file:

cd %path%

set /p olddirectory=Enter the name of the directory or file:

set /p new=Enter the new name of the directory or the file:

ren %olddirectory% %new%

@echo Your directory or file has been renamed!

cd../..

@echo Thank you for using the program!

Call :re-run

