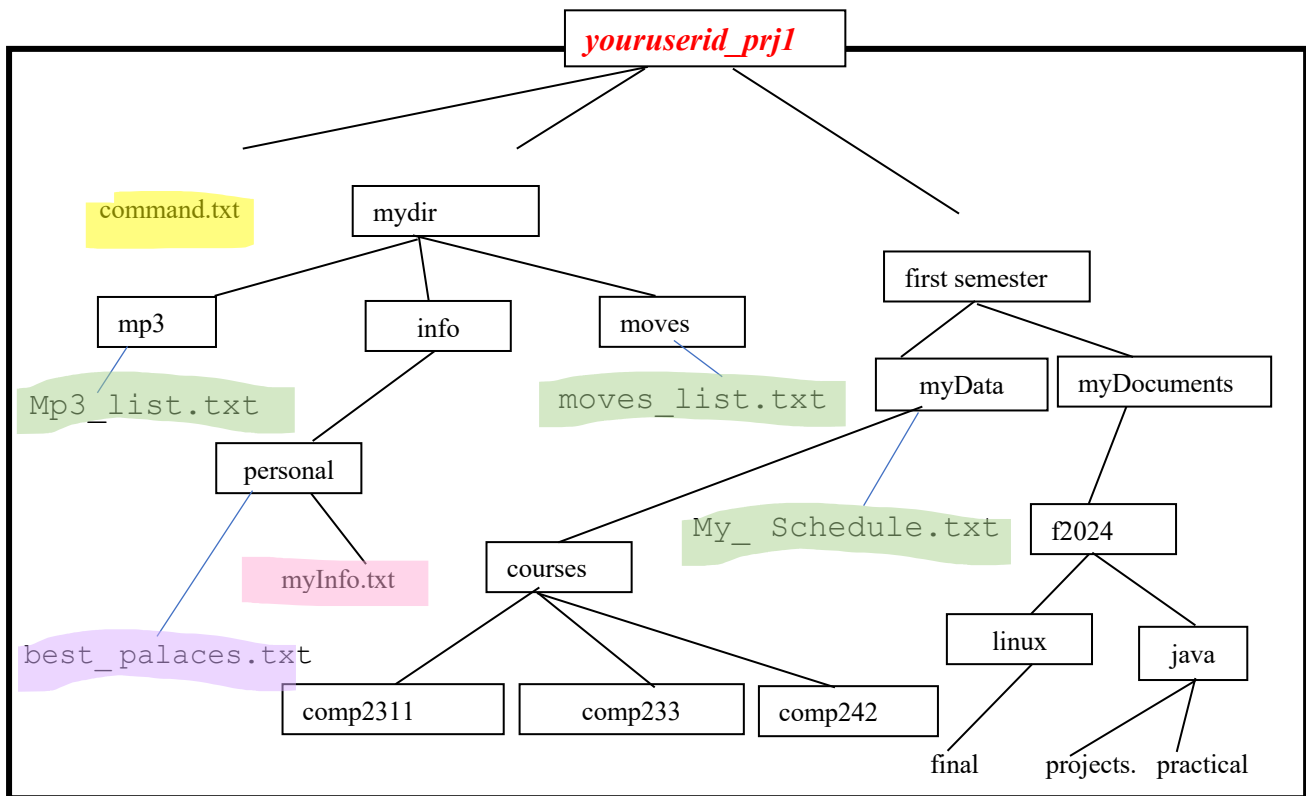Linux OS Lab - Comp 311

Due to: Saturday 25/11/2023, before 11:59PM
Submission: in Moodle- ITC

Given the following tree:

Notes: Required labs (LAB1-LAB4 ONLY)

READ THE PROJECT CAREFULLY, line by line and then answer the questions.

1. *Create a subdirectory on your machine under your home directory called youruserid_prj1 (e.g., u1220111_prj1).*
2. *Every created file must contain your name and be on the top of the first page. (ALL files)*
3. *Under the directory (e.g., u1220111_prj1), create a "command.txt" file. This file is highlighted in yellow colour. Your explanations, commands, and additional information must be written inside this file. This file contains all commands from 1-11)*
   (For example, Q#1.vi   . / *u1220111_prj1/favourites/pictures/personal/myinfo.txt*)

4. *All Boxes are directories, and the others are files.*
5. *All files that are highlighted with green colour are about yourself (fill with proper information about). For example, (My_ Schedule.txt), you must fill this file with your course schedule from Ritaj.*

Q#1: using relative paths (*start from your home as the main reference*) within your userid_prj1, create a directory hierarchy precisely as shown in the figure (**do not use the cd command**).

> *Create a "myInfo.txt" file under your project (the highlighted colour is rose). (**DO NOT forget**, inside this file, at the top, write **your name and student ID** and write inside it all information about yourself (Your full name, current address, date of birth, major, hopes, resident place, ... at least write seven lines)*

Q#2: Create two **macros**. One is **called H** in insert mode, which deletes the last four words from the last line in the document. Another one in command mode is called **W,** which functions to copy and paste the last two lines above the 8th line in the text.

Q#3: Create a link file (`linkmyInfo`) inside the `myDocuments` directory linked to `myInfo.txt,` which has already been created in Q#1, and also create a directory link with the name(`link_courses`) inside the `f2024` directory is linked to the `courses directory` and *briefly explains the difference between the two commands.* **(Using relative links only, another solution is NOT accepted)**

Q#4: Use the vi editor to edit `best_ palaces.txt (lavender colour),` then type about at least five places you have ever visited in Palestine. **Please, write about your journies, don't copy and paste from the internet.** Save the changes.

Q#5: What commands could you use in **the command mode or extended mode** to do the following:
   A. move to the end of the last line.
   B. move to the beginning of the 3rd line.
   C. copy two lines above the 5th line.
   D. Delete two words before the word "your name". Suppose you have entered your name in the text file.
   E. Cut the first two lines and put them above the last line.

Q#6, *with a one-line command*, lists all files in the directory /etc. with names starting with 'h' or 'j', followed by any single character, followed by any vowel letter [a, e, i, o or u] and ending with any combination of characters.
   Hint: Use Google to search for the answer.

Q#7: Go to your home directory then copy all files inside the java directory to the `comp2311` directory.

Q#8: From your home directory, create a file called Queue inside *the* `comp242 directory` and then try to delete the directory `comp242 using rmdir. Does it work? Why?` and explain *how to delete this directory.* (Don't delete this directory)

Q#9: Change the permission of directory `linux` to *the following permission (u=rx, o=rw, g=-) using the absolute mode method.*

Q#10: If you want to change the "`projects`" file permission to -w- r-- rw-. *List at least 3 masks that should be used to get permission for this file:*

Q#11: Write a command to display when the permission of the "myInfo.txt" file was changed.

Submission Instructions:

- Go to the directory one level above `youruserid_prj1` (your home directory) and type the command.

  `tar -cvf youruserid_prj1.tar youruserid_prj1`

  This command will create an archive (tar file) of the entire directory structure of your userid_prj1.

- Turn in the file youruserid `prj1.tar` by putting it in ITC by the due date and time.
- ***You should do all the work above completely on your own***. Working with anybody else in class others on any part of this project will result in a zero grade.

  It would be best if you did all the work above wholly on your own. Working with anybody else in the class or others on any part of this project will result in a zero grade. **No projects will be accepted after the due date *and TIME for any reason.***

  ## Postponing the project is NOT permitted!

  ## تأجيل المشروع مرفوض لاي سبب كان