Program- BTech-3rd Semester   Type- Sp. Core-I
Course Code- CSET213   Course Name-Linux and Shell Programming
Year-   2025   Semester- Odd
Date- 29/07/25   Batch- B1-14

Lab Assignment 2

Exp No	Name	CLO Achieved				Marks
		CO1	CO2	CO3	CO4	
1	Linux commands- commands and editor	√				2

Objective: Linux commands- commands and editor

Outcomes: Students will be able to do hands-on working on file and directory commands and working on Vi/Vim editor.

Problem: Open terminal and run the following commands to get familiar with Linux command line interface (CLI):

1. **Basic File & Directory Related Linux Commands**
   a. Make a new directory(folder): mkdir dirname
   b. Create/Open text file using vi : vi filename
   c. Copy file: cp src dest
   d. Copy folder: cp -r src dest
   e. Rename: mv originalname newname
   f. Delete a single file: rm filename
   g. Delete a whole folder: rm -r foldername
   h. Change working directory: cd path
   i. Move to parent folder: cd ..
   j. List contents of a folder: ls
   k. List contents of a folder including hidden _les: ls -a.
   l. Print current directory: pwd.
   m. Open manual for a command: man commandname

2. **Using Commands to operate your system**
   a. Create a new directory with the name LSP
   b. Change the current directory to LSP
   c. In this directory, create another folder, called as Lab1.
   d. Change the current directory to Lab1.
   e. Create a text file me.txt using gedit/vi/nano and write your complete details (Name, Roll No, Program, Sem etc.) in it. Save and close it
   f. Copy the contents of me.txt to mycopy.txt using cp
   g. Open mycopy.txt using gedit/vi/nano and verify that it is a copy of me.txt. Close the file
   h. Rename mycopy.txt as stillme.txt using mv
   i. Check if the file has been renamed by listing the contents using ls
   j. Move out of LSP using cd .. twice. (TIP: You can retrieve previous commands you typed using the UP-arrow key without typing them again.)
   k. Copy the directory hierarchy LSP to LSPcopy using cp -r
   l. Check the contents of the folder LSPcopy by going to the folder (cd) and then listing the contents(ls).

m. Go out of the folder (cd ..) and delete the whole directory LSPcopy using rm -r
n. You can use man to learn about different commands

Vim editor cheat sheet

Use the following commands in command mode:

- h - Moves the cursor to the left by one character; you can also press the left arrow.
- j - Moves the cursor one line down; you can also press the down arrow.
- k - Moves the cursor one line up; you can also press the up arrow.
- l - Moves the cursor to the right by one character; you can also press the right arrow.
- w - Moves the cursor one full word to the right.
- b - Moves the cursor one full word to the left.
- 0 - Moves the cursor to the beginning of the current line.
- $ - Moves the cursor to the end of the current line.
- ~ - Changes the case of the current character.
- dd - Deletes the current line.
- D - Deletes everything on the line to the right of the cursor's current position.
- x - Deletes the current character.
- u - Undo the last command.
- . - Repeats the last command.
- :w - Saves current file, but does not exit.
- :wq - Saves current file, and quits.

The following commands place you into insert mode:

- i - Inserts to the left of the current cursor position.
- a - Appends to the right of the current cursor position.
- dw - Deletes the current word.
- cw - Changes the current word.

Problems: Execute the commands for the following and observe the output:
a. Create a file in vim and write two paragraph each having at least two sentences and apply all the options to process the text.
b. Partitioning disk
c. Creation of a filesystem
d. Displaying the system space
e. Forcefully kill the process
f. Name 1000 directories in one go with a pattern like Photo-1- OfMyBirthday, Photo-2- OfMyBirthday, Photo-3- OfMyBirthday…. Photo-4-OfMyBirthday.

Submission Instructions:

1. Submission requires the screen shots of all the incurred steps to execute a shell script or a video showing the whole process.
2. All these files are in single zip folder.
3. Use the naming convention: Prog_CourseCode_EnrollmentNo_LabNo.docx (Example: BTech3rdSem_CSET213_ EnrollmentNo_Lab1.1)
4. Submission is through LMS only