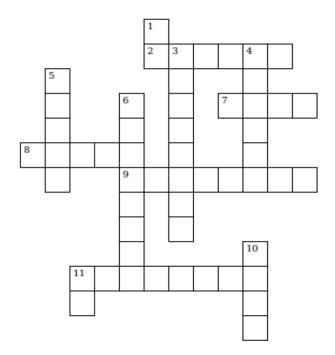
Objective

In this lab you will explore the systems calls used to manipulate the file system.

Exercise

1. This is a fun exercise to test your knowledge of Linux commands. You need to solve

the given crossword



ACROSS

- 2 File which stores user account names and their settings
- 7 UNIX system administrator
- 8 Command that lets you delete empty directories
- 9 Process of adding a storage device to a file system
- 11 Path name which starts with the current directory

DOWN

- 1 Command that lets you copy files
- 3 Path name that starts with the root directory
- 4 Displays your user name
- 5 Command which displays system characteristics
- 6 Name of a program which runs a shell
- 10 Command that lets you see a file one screen at a time
- 11 Allows you to delete files
- 2. Write a C program to emulate the ls -1 UNIX command that prints all files in a current directory and lists access privileges etc. DO NOT simply exec ls -1 from the program.

[Hint: Checkout the system calls - scandir(), stat, fstat, lstat, etc]

3. Write a program to print the lines of a file which contain a word given as the program argument

Deliverables

Create a pdf document containing the output of your program. Next create an archive file by the name <roll number>.tar that contains the pdf document and the C program. Mail the document to cs242@iitp.ac.in with subject "Lab 1".