**LAB 1**

**UNIX SHELL COMMANDS**

**Lab Exercises**

1. Execute and write output of all the commands explained so far in this manual.

A picture containing text

Description automatically generated

Graphical user interface, text

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Text

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Text

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Graphical user interface, text, application, chat or text message

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Graphical user interface, text

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Q2. Explore the following commands along with their various options. (Some of the options are specified in the bracket)

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Q3. List all the file names satisfying following criteria

a. has the extension .txt.

b. containing atleast one digit.

c. having minimum length of 4.

d. does not contain any of the vowels as the start letter.

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**Lab 2**

**ADVANCED UNIX SHELL COMMANDS**

Q1. Execute all the commands explained in this section and write the output.

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2. Write grep commands to do the following activities:

• To select the lines from a file that have exactly two characters.

• To select the lines from a file that start with the upper case letter.

• To select the lines from a file that end with a period.

• To select the lines in a file that has one or more blank spaces.

• To select the lines in a file and direct them to another file which has digits as

one of the characters in that line.

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3. Create file studentInformation.txt using vi editor which contains details in the following format.

RegistrationNo:Name:Department:Branch:Section:Sub1:Sub2:Sub3

1234:XYZ:ICT:CCE:A:80:60:70 … (add atleast 10 rows)

i) Display the number students (only count) belonging to ICT department.

ii) Replace all occurrences of IT branch with “Information Technology” and save

the output to ITStudents.txt

iii) Display the average marks of student with the given registration number

“1234” (or any specific existing number).

iv) Display the title row in uppercase. The remaining lines should be unchanged.

Example:

REGISTRATIONNO:NAME:DEPARTMENT:BRANCH:SECTION:…

1234:XYZ:ICT:CCE:A:10:30:50 … ( Hint: use ; for running multiple commands)

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3. List all the files containing “MIT” in the current folder. Also display the lines containing MIT being replaced with Manipal Institute of Technology. (Hint: use grep, cut & sed)

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4. Write a shell command to display the number of lines, characters, words of files containing a digit in its name

Text

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5. Run wc command in the background many times using wc &. Kill all the processes named wc.

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