**Experiment 1**: - Practice basic bash commands, I/O redirection, and directory operations.

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| **Command** | **Example** | **Description** | **Output** |
| pwd | pwd | Print the path of working directory, starting from root. |  |
| ls | ls  ls..  ls -l | List files in current directory.  List files of previous directory.  List files with information about them. |  |
| cd | cd ~  cd / | Change directory to home.  Change directory to root. |  |
| cat | cat > filename.txt  cat file1 file2 > file 3  cat >> filename.txt  cat -s filename.txt  cat -b filename.txt  Cat -E  filename.txt | Creating text file and writing in it.  Combining two files and store their data in another file.  Appending the text to the file.  It will suppress multiple empty lines.  For numbering the lines except the blank lines.  It will add a special character $ at the end of every line. |  |
| mkdir | mkdir [directories]  mkdir -v [directory]  mkdir -p [directory] | Create a folder in current directory.  It displays a message for every directory created.  To create parent directory as necessary. If directory exists, no error is displayed. |  |
| rmdir | rmdir [directory] | Remove the directories only if they are empty. |  |
| rm | rm [files]  rm -i [files]  rm -F [file]  rm -r [directory] | Remove files or directories (by default it does not remove directories.  Confirm from user before deletion.  Remove file by force.  Removes all the directories which are non-empty too. |  |