



## **EXPERIMENT 1**

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**ROLL NO.: 2021A1R156**

**SUBJECT: OPERATING SYSTEM**

**SEMESTER: 3rd**

**COURSE CODE: COM-312**

**CO-ORDINATER:**

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

| <b>Command</b> | <b>Example</b>   | <b>Description</b>   |
|----------------|--|--|
| ls             | ls<br><br>ls ..<br><br>ls -a<br><br>ls -l                  | List files in current directory.<br><br>List files of previous directory.<br><br>List all file in current directory including hidden files.<br><br>List files with information about them.                                   |
| pwd            | pwd  | Print the path of working directory, starting from root  |
| cd             | cd [direct_1]<br><br>cd /<br><br>cd ~ (or cd)<br><br>cd .. | To move inside subdirectory[direct_1] or change working directory to [direct_1].<br><br>Change directory to root directory.<br><br>Change directory to home directory.<br><br>Move to parent directory of present directory. |

| Command | Example   | Description  |
|---------|---|--|
| mkdir   | mkdir [directories..]<br><br>mkdir -v[direct..]<br><br>mkdir -p[direct.]<br><br>mkdir -m a=r fs           | <p>Create [directories..] or folders in current directory.</p> <p>It displays a message for every directory created.</p> <p>To create parent directories as necessary. If direct. exist, no error is specified.</p> <p>‘-m’ is used to set modes i.e permissions, here ‘a=r’ is mode for fs directory.</p> |
| rmdir   | rmdir [directories]   | Remove the directories if they are empty.  |
| rm      | rm [files..]<br><br>rm -i [files..]<br><br>rm -f [files..]<br>rm -r [directory]                           | <p>Remove files or directories (by default it does not remove directories)</p> <p>Confirm from user before deletion.</p> <p>Remove files by force.</p> <p>Remove all files and sub-directories recursively.</p>  |
| cp      | cp [surc_files] [destination]<br><br>cp -i file1 file2<br><br>cp -r Dir1 Dir2<br><br>cp *.txt Destination | <p>Copy the source file to destination.</p> <p>Confirm before copying file1 content to file2.</p> <p>Copy all content of Dir1 to Dir2.</p> <p>Copy all items of .txt format to Destination</p>   |

## OUTPUT:

```
sudanshi@sudanshi: ~/Desktop/files/folder

sudanshi@sudanshi:~/Desktop$ pwd
/home/sudanshi/Desktop
sudanshi@sudanshi:~/Desktop$ mkdir files
sudanshi@sudanshi:~/Desktop$ ls
files
sudanshi@sudanshi:~/Desktop$ cd files
sudanshi@sudanshi:~/Desktop/files$ touch text.txt
sudanshi@sudanshi:~/Desktop/files$ ls
text.txt
sudanshi@sudanshi:~/Desktop/files$ mkdir folder
sudanshi@sudanshi:~/Desktop/files$ ls
folder  text.txt
sudanshi@sudanshi:~/Desktop/files$ cp text.txt folder
sudanshi@sudanshi:~/Desktop/files$ rm text.txt
sudanshi@sudanshi:~/Desktop/files$ ls
folder
sudanshi@sudanshi:~/Desktop/files$ cd folder
sudanshi@sudanshi:~/Desktop/files/folder$ ls
text.txt
sudanshi@sudanshi:~/Desktop/files/folder$
```