Mruganshi Gohel B20CS014

LAB-1 PART-2

\rightarrow How to run?

- Type : g++ shell.cpp
- Followed by ./a.out
- Dependencies needed:

g++ Compiler

Libreadlines and if this library doesn't exist on your device you can install it using :

sudo apt-get install libreadline-dev

 \rightarrow shell.cpp is a simple executable shell that has been built using c++ language and relevant libraries.

→ Features added are:

- help: display the command list.
- hello: display greets and asks to type any function and if you don't know type help.
- history: history of commands typed by the user.
- env: Environment Information
- ls: lists of directories present in the current directory
- exit: exits
- mkdir: create a new directory
- rmdir: delete an existing directory
- cd: change directory

- pwd: current directory
- clear: clears
- Colored outputs: escape sequences have been used to produce colored outputs

→Special feature:

• In order to make outputs attractive, colors have been added using escape sequences.

→ Execution Status:

• Returns 0 on pass and 1 on error.

→ Exception handling

- cd: if the directory is not present, no action is performed.
- mkdir: If a directory is already present then no action is performed and the exception displays a message that the file is already present.
- rmdir: If the directory is not present, the exception returns the message that the directory can't be removed.

→ Outputs after executing the commands

• welcome message

• help

```
USER is: @mruganshi
/home/mruganshi/Desktop/lab-2/part2$ help

***#########

Commands:
>hello
>history
>env
>help
>ls
>exit
>mkdir
>rmdir
>cd
>pwd
>clear
/home/mruganshi/Desktop/lab-2/part2$ [
```

• hello

```
/home/mruganshi/Desktop/lab-2/part2$ hello

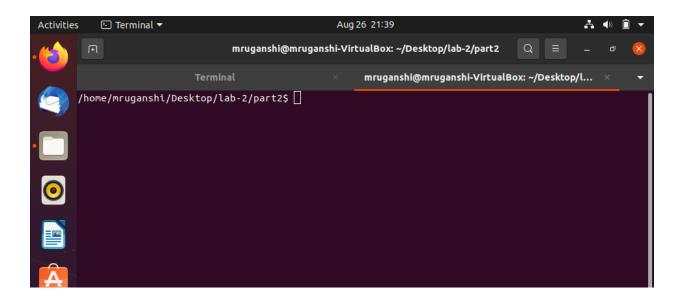
Hello mruganshi.
Please type the required command.Type help to see list of commands
/home/mruganshi/Desktop/lab-2/part2$ [
```

exit

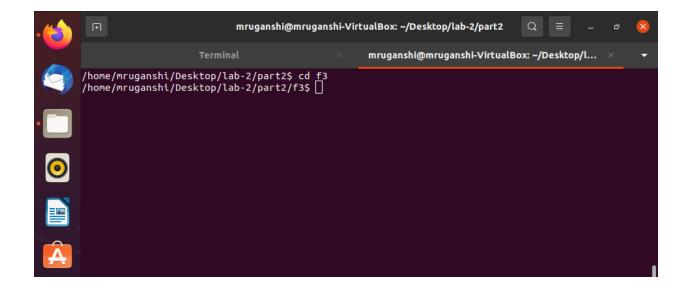
```
/home/mruganshi/Desktop/lab-2/part2$ exit

Bbye
mruganshi@mruganshi-VirtualBox:~/Desktop/lab-2/part2$
```

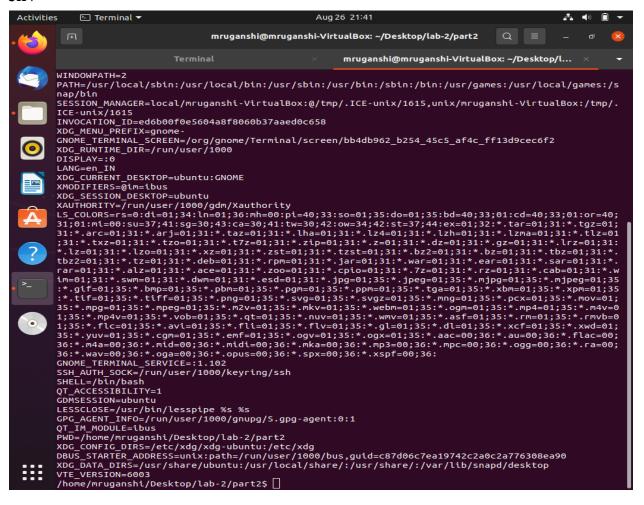
clear



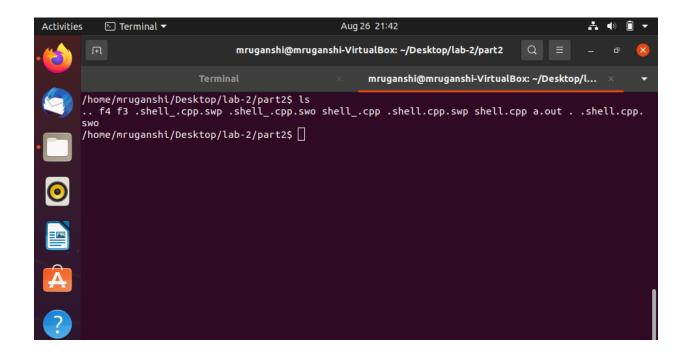
• cd



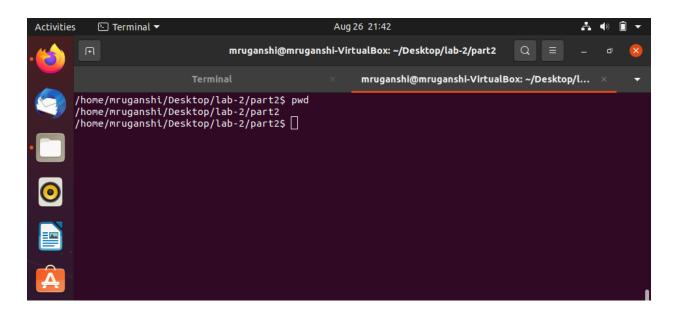
env



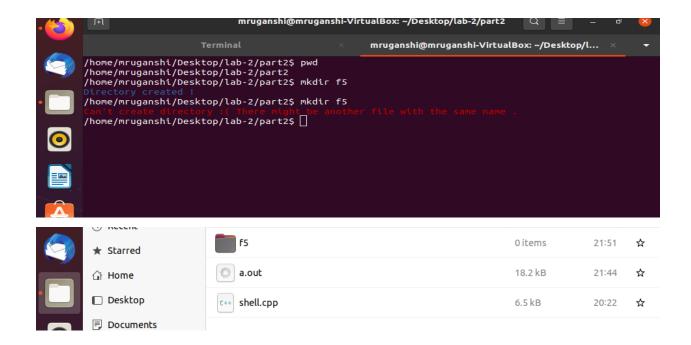
• ls



pwd



mkdir



• rmdir

