PRAKHAR AGRAWAL (15CS01015)

OBJECTIVE: The object of this assignment is to gain experience with some advanced programming techniques including file descriptors, signals and pipes. To do this, you will be writing your own command shell - much like bash shell

Commands supported:

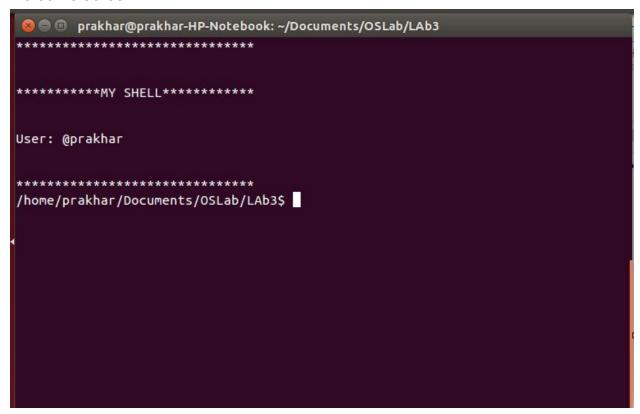
cd, ls, exit, help and I other built in function of bash. With pipe handling.

Command to run the code :-

gcc lab3assign.c -L/usr/local/lib -l/usr/local/include -lreadline ./a.out

As readline is a gnu library we need to implement readline functions.

Welcome screen



*Creating new directory (mkdir and Is)

```
prakhar@prakhar-HP-Notebook: ~/Documents/OSLab/LAb3

/home/prakhar/Documents/OSLab/LAb3$ ls

1.txt a.out lab3assign.c lab3assign.c~ Laboratory_3.pdf mydir
/home/prakhar/Documents/OSLab/LAb3$ mkdir newdir
/home/prakhar/Documents/OSLab/LAb3$ ls

1.txt a.out lab3assign.c lab3assign.c~ Laboratory_3.pdf mydir newdir
/home/prakhar/Documents/OSLab/LAb3$
```

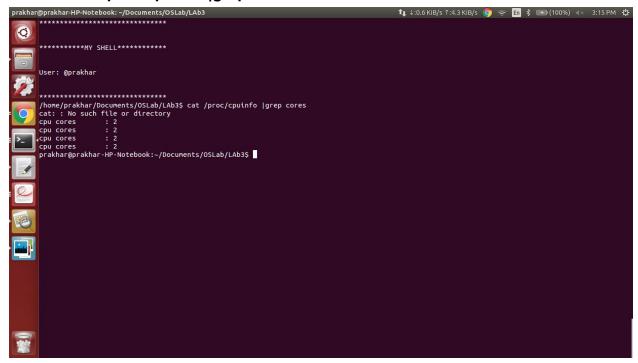
*help command

```
prakhar@prakhar-HP-Notebook: ~/Documents/OSLab/LAb3
/home/prakhar/Documents/OSLab/LAb3$ help

***WELCOME TO MY SHELL HELP***
Copyright @prakhar
-Use the shell at your own risk...
List of Commands supported:
>cd
>cd
>ls
>exit
>all other general commands available in UNIX shell
>pipe handling
>improper space handling
/home/prakhar/Documents/OSLab/LAb3$
```

*Command to generate cpuinfo

*PIPES-> cat/proc/cpuinfo |grep cores



Here piping is used.

The output of first command is given as the input of the second.

void execute_piped_commands() is called to execute piped commands.