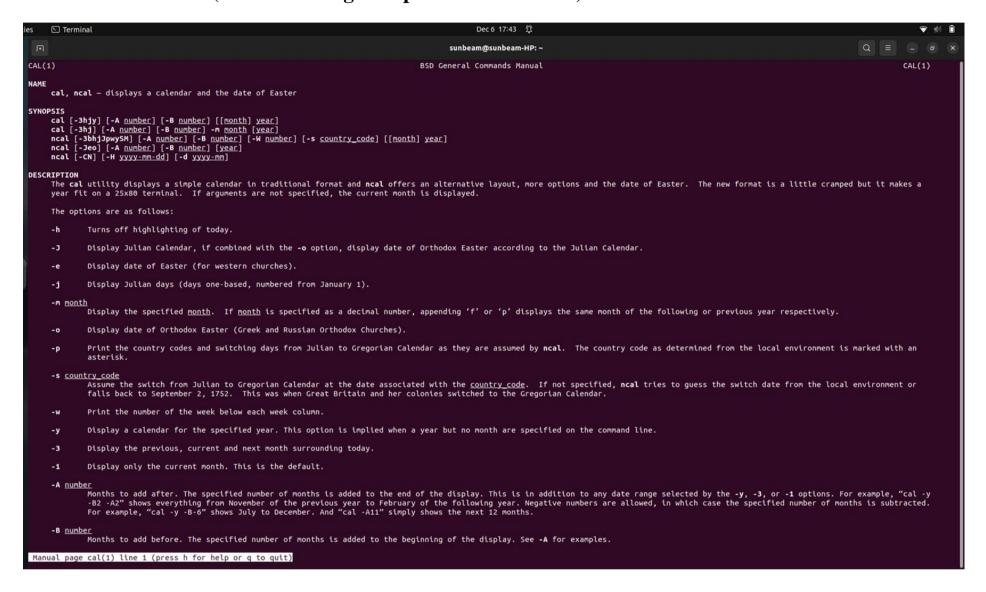
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Roll No: 80164 Group: KD4

Assignment No:-1

1)man:-

Command: - man cal(Command to get help about commands).



2)uname:-

command:-uname(Print System information).

```
sunbeam@sunbeam-HP:~$ uname
Linux
sunbeam@sunbeam-HP:~$
```

3)pwd:-

command:-pwd(Print current directory).

```
sunbeam@sunbeam-HP:~$ pwd
/home/sunbeam
sunbeam@sunbeam-HP:~$
```

4)hostname:-

command:-hostname(Print IP address and hostname of the machine)

```
sunbeam@sunbeam-HP:~$ hostname
sunbeam-HP
sunbeam@sunbeam-HP:~$
```

5)date:-

command:-date(Find today's date)

```
sunbeam@sunbeam-HP:~$ echo $SHELL
/bin/bash
sunbeam@sunbeam-HP:~$ date
Wednesday 06 December 2023 05:30:50 PM IST
```

6)cal:-

command:-cal(Print calendar for current year)

```
Sunbeam@sunbeam-HP:~$ cal
December 2023
Su Mo Tu We Th Fr Sa

1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31
```

7)ls, dir:-

commnad:-ls,dir(See directory structure)

```
sunbeam@sunbeam-HP-Notebook:~$ ls
ADS_230940820004
commends
cpp.txt
cprogramming_80109
cprogramming_80109.zip
'dbt gogle notes.pdf'
Desktop
Documents
Downloads
OOP_230940820004_REEXAM
OOP_230940820004_REEXAM.zip
package.json
package.lock.json
Pictures
Public
Servers
```

```
sunbeam@sunbeam-HP-Notebook:~$ dir
ADS_230940820004
                       Documents
                                                               NodeJS_Demo
                                                                                            package.json
                                                                                                               Untitled\ Document\ 1
commends
                                                                                            package-lock.json
                                                                                                               Videos
                       Downloads
                                                               node_modules
                                                               OOP_230940020004
                       GD_BollyWood_Today_KD3.odt
                                                                                            Pictures
                                                                                                               WPT_ASSIGNMENT
cpp.txt
cprogramming_80109
                       google-chrome-stable_current_amd64.deb
                                                              OOP 230940020004.zip
                                                                                            Public
                                                                                                               WPT_DEMO
                                                                                                               zoom_amd64.deb
cprogramming_80109.zip Hacathon1
                                                               00P_230940820004
                                                                                            Servers
dbt\ gogle\ notes.pdf Music
                                                               OOP_230940820004_REEXAM
                                                                                            snap
```

8)cat:-

command:-cat>Test.txt(create file)

```
sunbeam@sunbeam-HP:~$ cat>Test.txt
Welcome To Sunbeam
This is Test Filesunbeam@sunbeam-HP:~$ cat Test.txt
Welcome To Sunbeam
This is Test Filesunbeam@sunbeam-HP:~$
```

9)cat >>:-

command:- cat>>Test.txt(Append some text into existing file)

```
sunbeam@sunbeam-HP:~$ cat>Test.txt
Welcome To Sunbeam
This is Test Filesunbeam@sunbeam-HP:~$ cat Test.txt
Welcome To Sunbeam
This is Test Filesunbeam@sunbeam-HP:~$ cat>>Test.txt
Welcome To Karad.sunbeam@sunbeam-HP:~$ cat Test.txt
Welcome To Sunbeam
This is Test FileWelcome To Karad.sunbeam@sunbeam-HP:~$ cat>>Test.txt
Hiiii from Karad......sunbeam@sunbeam-HP:~$ cat Test.txt
Welcome To Sunbeam
This is Test FileWelcome To Karad.Hiiii from Karad.....sunbeam@sunbeam-HP:~$
```

10)cp:-

command:-(Copy a file, Copy a directory)

Copy a file:-

```
sunbeam@sunbeam-HP:~$ cp Test.txt copy.txt
sunbeam@sunbeam-HP:~$ cat copy.txt
Welcome To Sunbeam
This is Test FileWelcome To Karad.Hiiii from Karad......sunbeam@sunbeam-HP:~$
```

Copy a directory:-

```
sunbeam@sunbeam-HP:~$ cp Test.txt OSC
sunbeam@sunbeam-HP:~$ ls OSC
Test.txt
sunbeam@sunbeam-HP:~$
```

11)mv:-

command:- mv Test.txt new.txt-->for rename mv new.txt OSC(Move the files)

```
sunbeam@sunbeam-HP:~$ mv Test.txt new.txt
sunbeam@sunbeam-HP:~$ ls new
ls: cannot access 'new': No such file or directory
sunbeam@sunbeam-HP:-$ ls Test
ls: cannot access 'Test': No such file or directory
sunbeam@sunbeam-HP:-$ ls new.txt
new.txt
sunbeam@sunbeam-HP:~$ mv new.txt OSC
sunbeam@sunbeam-HP:~$ ls
ass1_1
                                                                                      GD_BollyWood_Today_KD3.odt LabExam
                                                                                                                                                      prn
                                                                                                                                   package.json
                                                                                      hack
                                           cprogramming_80136 DSA_230940820041
                                                                                     hello.c
                                                                                                                                   package-lock.json
                                                                                      hs_err_pid6793.log
                                                                                                                  'new token'
                                                                                                                                                      resumeeeeerutu
                     copy.txt
sunbeam@sunbeam-HP:-$ ls OSC
new.txt Test.txt
```

12)mv(Rename a file):-

13)tac, rev(Print the file in reverse order, Reverse each line in the file):-

tac:-

```
sunbeam@sunbeam-HP:~$ tac copy.txt
This is Test FileWelcome To Karad.Hiiii from Karad......Welcome To Sunbeam
sunbeam@sunbeam-HP:~$
```

rev:-

```
sunbeam@sunbeam-HP:~$ rev copy.txt
maebnuS oT emocleW
.....daraK morf iiiiH.daraK oT emocleWeliF tseT si sihTsunbeam@sunbeam-HP:~$
```

14)mkdir:-(Create directory)

15)wc:-(Count the words, characters and lines in a file)

```
sunbeam@sunbeam-HP:~$ wc copy.txt
1 11 79 copy.txt
sunbeam@sunbeam-HP:~$
```

16)cd(Change current directory):-

```
sunbeam@sunbeam-HP:~$ cd OSC
sunbeam@sunbeam-HP:~/OSC$
```

17)rm(Remove a file, remove a directory (with -R)):-

```
sunbeam@sunbeam-HP:~/OSC$ mkdir OS JAVA PYTHON DSA
sunbeam@sunbeam-HP:~/OSC$ ls

DSA file08.txt file0.txt file1.txt file2.txt file3.txt file9.txt JAVA new.txt OS PYTHON Test.txt
sunbeam@sunbeam-HP:~/OSC$ rm -r java
rm: cannot remove 'java': No such file or directory
sunbeam@sunbeam-HP:~/OSC$ rm -R OS
sunbeam@sunbeam-HP:~/OSC$ ls

DSA file08.txt file0.txt file1.txt file2.txt file3.txt file9.txt JAVA new.txt PYTHON Test.txt
sunbeam@sunbeam-HP:~/OSC$
```

18)rmdir(remove empty directory):-

```
sunbeam@sunbeam-HP:~/OSC$ mkdir java
sunbeam@sunbeam-HP:~/OSC$ ls
java new.txt Test.txt
sunbeam@sunbeam-HP:~/OSC$ rmdir java
sunbeam@sunbeam-HP:~/OSC$ ls
new.txt Test.txt
sunbeam@sunbeam-HP:~/OSC$
```

19) touch (change the modification time, Create Multiple empty files at once):-

```
sunbeam@sunbeam-HP:~/OSC$ touch file1.txt file2.txt file3.txt
sunbeam@sunbeam-HP:~/OSC$ ls
file1.txt file2.txt file3.txt new.txt Test.txt
sunbeam@sunbeam-HP:~/OSC$
```

20)sort(Sort file.):-

```
sunbeam@sunbeam-HP-Notebook:-$ cat > file5.txt

VIRAT
AKASH
DHONI
MESSI
CHHETRI
sunbeam@sunbeam-HP-Notebook:-$ sort file5.txt
AKASH
CHHETRI
DHONI
MESSI
VIRAT
sunbeam@sunbeam-HP-Notebook:-$
```

21)uniq(Avoid repetition in a file.):-

```
sunbeam@sunbeam-HP:~/OSC$ cat>file0.txt
I love Music.
I love Music.
I love Dancing.
I love Dancing.
sunbeam@sunbeam-HP:~/OSC$ uniq file0.txt
I love Music.
I love Dancing.
sunbeam@sunbeam-HP:~/OSC$
```

22)head(Print the specified number of lines from top in the file.):-

```
sunbeam@sunbeam-HP:~/OSC$ cat>file08.txt
Rutuja
Sammed
Rutika
Bhumika
Chaitrali
Surbhi
Akash
Chalana
Ganga
Sapana
Ranjana
Seema
Anita
sunbeam@sunbeam-HP:~/OSC$ head file08.txt
Sammed
Rutika
Bhumika
Chaitrali
Surbhi
Akash
Chalana
Ganga
Sapana
sunbeam@sunbeam-HP:~/OSC$
```

23)tail(Print the specified number of lines from bottom in the file.):-

```
sunbeam@sunbeam-HP:~/OSC$ head file08.txt
Rutuja
Sammed
Rutika
Bhumika
Chaitrali
Surbhi
Akash
Chalana
Ganga
Sapana
sunbeam@sunbeam-HP:~/OSC$ tail file08.txt
Bhumika
Chaitrali
Surbhi
Akash
Chalana
Ganga
Sapana
Ranjana
Seema
Anita
sunbeam@sunbeam-HP:~/OSC$
```

24)factor(Find the factors of a number):-

```
sunbeam@sunbeam-HP:~/OSC$ factor 100
100: 2 2 5 5
sunbeam@sunbeam-HP:~/OSC$
```

25)alias(Create command shortcut):-

```
sunbeam@sunbeam-HP:~$ alias list="ls -l"
sunbeam@sunbeam-HP:~$ list
total 183860
- FW- FW- F--
            1 sunbeam sunbeam
                                   1456 Sep 24 16:20 ass1_1
drwxr-xr-x 5 sunbeam sunbeam
                                   4096 Oct 22 18:01 Assignment14_Q1
drwxr-xr-x 5 sunbeam sunbeam
                                   4096 Oct 7 16:07 Assignment2
-rw-r--r-- 1 sunbeam sunbeam
                                  82305 Nov 4 18:57
drwxrwxr-x 5 sunbeam sunbeam
                                  4096 Oct 12 23:53 Assignment6
drwxrwxr-x 5 sunbeam sunbeam
                                  4096 Oct 15 17:26 Assignment7
drwxr-xr-x 3 sunbeam sunbeam
                                  4096 Sep 10 21:57 'Assignments 1-5dbt'
drwxrwxr-x 2 sunbeam sunbeam
                                   4096 Sep 10 17:25 AssignmentSQL
drwxrwxr-x 2 sunbeam sunbeam
                                   4096 Sep 11 17:01 AssSQL
drwxr-xr-x 2 sunbeam sunbeam
                                   4096 Oct 17 18:12 bookdetails
drwxrwxr-x 2 sunbeam sunbeam
                                   4096 Sep 21 14:25 C
-rw-rw-r-- 1 sunbeam sunbeam
                                    79 Dec 6 18:20 copy.txt
drwxrwxr-x 3 sunbeam sunbeam
                                  4096 Oct 7 14:35 CPP
drwxrwxr-x 3 sunbeam sunbeam
                                  4096 Oct 7 22:39 cpp 80136
-rw-rw-r-- 1 sunbeam sunbeam
                                  13168 Oct 7 22:41 cpp_80136.ztp
drwxrwxr-x 4 sunbeam sunbeam
                                  4096 Sep 9 16:29 cprogramming 80136
                                  28348 Sep 9 16:46 cprogramming_80136.zip
-rw-rw-r-- 1 sunbeam sunbeam
drwxr-xr-x 5 sunbeam sunbeam
                                  4096 Nov 19 11:20 Desktop
drwxr-xr-x
          5 sunbeam sunbeam
                                   4096 Dec 7 16:44 Documents
drwxr-xr-x 20 sunbeam sunbeam
                                  12288 Dec 6 18:44 Downloads
drwxr-xr-x
            2 sunbeam sunbeam
                                   4096 Nov 2 15:00 Dsa
            7 sunbeam sunbeam
drwxrwxr-x
                                   4096 Nov 17 12:39 DSA_230940820041
drwxrwxr-x 20 sunbeam sunbeam
                                   4096 Nov 9 00:23 DSAlabTest
drwxrwxr-x 46 sunbeam sunbeam
                                   4096 Nov 4 20:41 DSApractice
drwxrwxr-x
            2 sunbeam sunbeam
                                   4096 Sep 11 22:34 Exercise
- FW- FW- F--
            1 sunbeam sunbeam
                                  46973 Oct 13 16:57 GD BollyWood Today KD3.odt
- FW- FW- F--
            1 sunbeam sunbeam
                                  19092 Nov 17 15:02 hack
            1 sunbeam sunbeam
                                     48 Sep 8 16:36 hello.c
- - W - LM - L - -
            1 sunbeam sunbeam
                                 287667 Nov 9 11:51 hs_err_pid6793.log
- LM-LM-L--
            2 sunbeam sunbeam
                                   4096 Nov 26 17:43 Intro
drwxrwxr-x
drwxrwxr-x 60 sunbeam sunbeam
                                   4096 Oct 25 08:08 java_practicde
```

```
sunbeam@sunbeam-HP:~$ unalias list
sunbeam@sunbeam-HP:~$ list
Command 'list' not found, did you mean:
 command 'mist' from snap mist (master)
 command 'klist' from deb krb5-user (1.19.2-2ubuntu0.2)
 command 'klist' from deb heimdal-clients (7.7.0+dfsg-3ubuntu1)
 command 'gist' from deb yorick (2.2.04+dfsg1-12)
 command 'last' from deb util-linux (2.37.2-4ubuntu3)
 command 'flist' from deb mmh (0.4-4)
 command 'flist' from deb nmh (1.7.1-11)
 command 'dist' from deb mmh (0.4-4)
 command 'dist' from deb nmh (1.7.1-11)
 command 'lift' from deb lift (2.6.0-1)
 command 'hist' from deb loki (2.4.7.4-10)
 command 'mlist' from deb mblaze (1.1-1)
See 'snap info <snapname>' for additional versions.
sunbeam@sunbeam-HP:~$
```

27)echo(Print environment variables individually):-

```
sunbeam@sunbeam-HP:~$ echo "Rutuja Rajendra Hatgine"
Rutuja Rajendra Hatgine
sunbeam@sunbeam-HP:~$
```

28)ps(Print current processes):-

```
sunbeam@sunbeam-HP:~/OSC$ ps
   PID TTY TIME CMD
 8596 pts/0 00:00:00 bash
21852 pts/0 00:00:00 ps
          00:00:00 rcu_gp
00:00:00
sunbeam@sunbeam-HP:~/OSC$ ps -e
   PID TTY
     1 ?
     2 ?
     3 ?
      4 ?
                00:00:00 rcu_par_gp
      5 ?
                00:00:00 slub flushwq
     6 ?
                00:00:00 netns
     8 ?
                00:00:00 kworker/0:0H-events_highpri
    10 ?
                 00:00:00 mm_percpu_wq
                 00:00:00 rcu tasks kthread
    11 ?
```

29)kill(Kill the process):-

```
sunbeam@sunbeam-HP:~/OSC$ kill
kill: usage: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill -l [sigspec]
sunbeam@sunbeam-HP:~/OSC$
```

30)env(Print environment variables):-

HELL=/bin/bash