**Assignment No:1**

**1] a.**

~$ pwd

/home/user

~$ ls

Assign1.term

~$ date

Mon Sep 7 17:17:15 UTC 2020

~$ date --date="Sept 7 2020 13:12:10"

Mon Sep 7 13:12:10 UTC 2020

~$ date --date="next mon"

Mon Sep 14 00:00:00 UTC 2020

~$ date --date="next sun"

Sun Sep 13 00:00:00 UTC 2020

~$ date --date=@5

Thu Jan 1 00:00:05 UTC 1970

~$ date --date='3 seconds ago'

Mon Sep 7 17:23:08 UTC 2020

~$ date

Mon Sep 7 17:24:13 UTC 2020

~$ date -s "Sun May 20 21:00:00 PDT 2013"

date: cannot set date: Operation not permitted

Tue May 21 04:00:00 UTC 2013

~$ date

Mon Sep 7 17:24:52 UTC 2020

~$ ^C

~$ date -s "Tue sept 08 21:00:00 PDT 2020"

date: cannot set date: Operation not permitted

Wed Sep 9 04:00:00 UTC 2020

~$ date

Mon Sep 7 17:26:19 UTC 2020

~$ date -u

Mon Sep 7 17:26:43 UTC 2020

~$ date

Mon Sep 7 17:26:59 UTC 2020

~$ date -utc

date: invalid option -- 't'

Try 'date --help' for more information.

~$ date+%a

bash: date+%a: command not found

~$ date +%a

Mon

~$ date +%A

Monday

~$ date +%F

2020-09-07

~$ date +%H

17

~$ date +%I

05

~$ date +%j

251

~$ date +%m

09

~$ date +%M

34

~$ date +%S

30

~$ date +%N

758633374

~$ date +%T

17:34:59

~$ date +%u

1

~$ date +%U

36

**b.**

cal

September 2020

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

~$ cal 6 1997

June 1997

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

~$ cal -y

2020

January February March

Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa

1 2 3 4 1 1 2 3 4 5 6 7

5 6 7 8 9 10 11 2 3 4 5 6 7 8 8 9 10 11 12 13 14

12 13 14 15 16 17 18 9 10 11 12 13 14 15 15 16 17 18 19 20 21

19 20 21 22 23 24 25 16 17 18 19 20 21 22 22 23 24 25 26 27 28

26 27 28 29 30 31 23 24 25 26 27 28 29 29 30 31

April May June

Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa

1 2 3 4 1 2 1 2 3 4 5 6

5 6 7 8 9 10 11 3 4 5 6 7 8 9 7 8 9 10 11 12 13

12 13 14 15 16 17 18 10 11 12 13 14 15 16 14 15 16 17 18 19 20

19 20 21 22 23 24 25 17 18 19 20 21 22 23 21 22 23 24 25 26 27

26 27 28 29 30 24 25 26 27 28 29 30 28 29 30

31

July August September

Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa

1 2 3 4 1 1 2 3 4 5

5 6 7 8 9 10 11 2 3 4 5 6 7 8 6 7 8 9 10 11 12

12 13 14 15 16 17 18 9 10 11 12 13 14 15 13 14 15 16 17 18 19

19 20 21 22 23 24 25 16 17 18 19 20 21 22 20 21 22 23 24 25 26

26 27 28 29 30 31 23 24 25 26 27 28 29 27 28 29 30

30 31

October November December

Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa

1 2 3 1 2 3 4 5 6 7 1 2 3 4 5

4 5 6 7 8 9 10 8 9 10 11 12 13 14 6 7 8 9 10 11 12

11 12 13 14 15 16 17 15 16 17 18 19 20 21 13 14 15 16 17 18 19

18 19 20 21 22 23 24 22 23 24 25 26 27 28 20 21 22 23 24 25 26

25 26 27 28 29 30 31 29 30 27 28 29 30 31

~$ cal -w

Usage: cal [general options] [-jy] [[month] year]

cal [general options] [-j] [-m month] [year]

ncal -C [general options] [-jy] [[month] year]

ncal -C [general options] [-j] [-m month] [year]

ncal [general options] [-bhJjpwySM] [-H yyyy-mm-dd] [-s country\_code] [[month] year]

ncal [general options] [-bhJeoSM] [year]

General options: [-31] [-A months] [-B months] [-d yyyy-mm]

~$ ncal -w

September 2020

Su 6 13 20 27

Mo 7 14 21 28

Tu 1 8 15 22 29

We 2 9 16 23 30

Th 3 10 17 24

Fr 4 11 18 25

Sa 5 12 19 26

36 37 38 39 40

~$ cal -m2

February 2020

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

~$

~$ cal -3

August 2020 September 2020 October 2020

Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa

1 1 2 3 4 5 1 2 3

2 3 4 5 6 7 8 6 7 8 9 10 11 12 4 5 6 7 8 9 10

9 10 11 12 13 14 15 13 14 15 16 17 18 19 11 12 13 14 15 16 17

16 17 18 19 20 21 22 20 21 22 23 24 25 26 18 19 20 21 22 23 24

23 24 25 26 27 28 29 27 28 29 30 25 26 27 28 29 30 31

30 31

~$

~$

~$ cal -j

September 2020

Su Mo Tu We Th Fr Sa

245 246 247 248 249

250 251 252 253 254 255 256

257 258 259 260 261 262 263

264 265 266 267 268 269 270

271 272 273 274

~$

~$ cal -o

Usage: cal [general options] [-jy] [[month] year]

cal [general options] [-j] [-m month] [year]

ncal -C [general options] [-jy] [[month] year]

ncal -C [general options] [-j] [-m month] [year]

ncal [general options] [-bhJjpwySM] [-H yyyy-mm-dd] [-s country\_code] [[month] year]

ncal [general options] [-bhJeoSM] [year]

General options: [-31] [-A months] [-B months] [-d yyyy-mm]

~$ ncal -o

04/19/20

~$

~$

~$ cal -A2

September 2020 October 2020 November 2020

Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa

1 2 3 4 5 1 2 3 1 2 3 4 5 6 7

6 7 8 9 10 11 12 4 5 6 7 8 9 10 8 9 10 11 12 13 14

13 14 15 16 17 18 19 11 12 13 14 15 16 17 15 16 17 18 19 20 21

20 21 22 23 24 25 26 18 19 20 21 22 23 24 22 23 24 25 26 27 28

27 28 29 30 25 26 27 28 29 30 31 29 30

~$

~$

~$ cal -A3

September 2020 October 2020 November 2020

Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa

1 2 3 4 5 1 2 3 1 2 3 4 5 6 7

6 7 8 9 10 11 12 4 5 6 7 8 9 10 8 9 10 11 12 13 14

13 14 15 16 17 18 19 11 12 13 14 15 16 17 15 16 17 18 19 20 21

20 21 22 23 24 25 26 18 19 20 21 22 23 24 22 23 24 25 26 27 28

27 28 29 30 25 26 27 28 29 30 31 29 30

December 2020

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

~$

~$

~$ cal -B2

2020

July August September

Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa

1 2 3 4 1 1 2 3 4 5

5 6 7 8 9 10 11 2 3 4 5 6 7 8 6 7 8 9 10 11 12

12 13 14 15 16 17 18 9 10 11 12 13 14 15 13 14 15 16 17 18 19

19 20 21 22 23 24 25 16 17 18 19 20 21 22 20 21 22 23 24 25 26

26 27 28 29 30 31 23 24 25 26 27 28 29 27 28 29 30

30 31

~$

**c.**

~$ echo "var=10;var" | bc

10

~$

~$ echo "var=10;var" | bc

10

~$

~$ echo "var=10;var^=2;var" | bc

100

~$

~$ x=`echo "var=500;var%=7;var" | bc`

~$ echo $x

3

~$

~$ $ echo "var=10;var++" | bc

bash: $: command not found

~$ echo "var=10;var++" | bc

10

~$

~$ echo "var=10;--var" | bc

9

~$

~$ echo "10>5" | bc

1

~$ echo "0 || 0" | bc

0

**d.**

~$

~$ echo x=10

x=10

~$

~$ echo Helloo

Helloo

~$

~$

~$ echo The value of variable x = $x

The value of variable x =

~$

~$ echo x=10

x=10

~$

~$ echo The value of variable x = $x

The value of variable x =

~$ x=10

~$ echo The value of variable x = $x

The value of variable x = 10

~$

~$

~$ echo -e "sohan \nharsh \nshamii\nprajapati \nvijay \nshri \npushpank"

sohan

harsh

shamii

prajapati

vijay

shri

pushpank

~$

~$ echo -e "Tecmint \tis \ta \tcommunity \tof \tLinux \tNerds"

Tecmint is a community of Linux Nerds

~$

~$ echo -e "\n\tTecmint \n\tis \n\ta \n\tcommunity \n\tof \n\tLinux \n\tNerds"

Tecmint

is

a

community

of

Linux

Nerds

~$

~$ echo -e "snehall \vharsha \vdeepak \vnprajakta \vviju "

snehall

harsha

deepak

nprajakta

viju

~$

~$ echo -e "\n\vTecmint \n\vis \n\va \n\vcommunity \n\vof \n\vLinux \n\vNerds"

Tecmint

is

a

community

of

Linux

Nerds

~$

~$ echo -e "Tecmint \ris a community of Linux Nerds"

is a community of Linux Nerds

~$

~$ ~$

~$ echo \*

1.term

~$

~$

**e.**

~$ who

~$ who -H

NAME LINE TIME COMMENT

~$

~$ who -q

# users=0

~$

~$ who -m

~$

~$ who -T

~$

~$ who -b

~$

~$ who -d

~$ who -p

~$

~$ who -a

~$

~$ man who

WHO(1) User Commands WHO(1)

NAME

who - show who is logged on

SYNOPSIS

who [OPTION]... [ FILE | ARG1 ARG2 ]

DESCRIPTION

Print information about users who are currently logged in.

-a, --all

same as -b -d --login -p -r -t -T -u

-b, --boot

time of last system boot

-d, --dead

print dead processes

-H, --heading

print line of column headings

--ips print ips instead of hostnames. with --lookup, canonicalizes based on stored IP, if available, rather than stored hostname

-l, --login

print system login processes

**f.**

$

~$ whoami

user

~$ ~$ whoami --version

whoami (GNU coreutils) 8.30

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There is NO WARRANTY, to the extent permitted by law.

Written by Richard Mlynarik.

~$

**g.**

~$ logname

logname: no login name

~$ logname --version

logname (GNU coreutils) 8.30

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Written by FIXME: unknown.

~$

~$ logname --help

Usage: logname [OPTION]

Print the name of the current user.

--help display this help and exit

--version output version information and exit

GNU coreutils online help: <https://www.gnu.org/software/coreutils/>

Report logname translation bugs to <https://translationproject.org/team/>

Full documentation at: <https://www.gnu.org/software/coreutils/logname>

or available locally via: info '(coreutils) logname invocation'

**h.**

~$ uname -a

Linux project-22575b78-a4df-4210-9a26-f17180bf8dbb 5.3.0-1030-gcp #32~18.04.1-Ubuntu SMP Thu Jun 25 19:30:23 UTC 2020 x86\_64 x86\_64 x86\_64 GNU/Linux

~$

~$ uname -s

Linux

~$

~$ uname -n

project-22575b78-a4df-4210-9a26-f17180bf8dbb

~$

~$ uname -r

5.3.0-1030-gcp

~$

~$ uname -m

x86\_64

~$

~$ uname -p

x86\_64

~$

~$ uname -i

x86\_64

~$

~$ uname -v

#32~18.04.1-Ubuntu SMP Thu Jun 25 19:30:23 UTC 2020

~$

~$ uname -o

GNU/Linux

**i.**

~$ seq 5

1

2

3

4

5

~$

~$ seq 4 8

4

5

6

7

8

~$

~$ seq -s " " 10

1 2 3 4 5 6 7 8 9 10

~$

~$ seq -w 10

01

02

03

04

05

06

07

08

09

10

~$

~$ seq -w 99 120

099

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

~$

~$

~$ seq -w 1 10 50

01

11

21

31

41

**j.**

~$clear

**Ques 2]**

**A.**

$ mkdir A B C

~$ CD A

bash: CD: command not found

~$ cd A

~/A$ touch A.txt B.txt C.txt

~/A$ cd

~$ cd B

~/B$ touch A.txt B.txt C.txt

~/B$ cd

~$ cd C

~/C$ touch A.txt B.txt C.txt

~/C$ cd

~$ cp -r C A

**B.**

mv B C

~$

**C.**

~$ alias DEEPAK="LS-LH"

~$

**D.**

~$ mv A CDA

**Ques 3]**

**A.**

touch file1.txt file2.txt file3.txt file4.txt file5.txt

~$

~$

~$ echo 'deepu'>> file1.txt file2.txt file3.txt file4.txt file5.txt

**B.**

$ cat file1.txt file2.txt file3.txt file4.txt file5.txt

deepufile2.txt file3.txt file4.txt file5.txt

**C.**

$ touch file1.txt file2.txt file3.txt file4.txt file5.txt

**D.**

$ rm -r C CDAC A

**Ques 4]**

**A.**

vi testfile

i to insert text

escape to leave insert

:wq to exit

cat testfile

**B.** cat -n testfile

**C.** tac testfile

**D.** cat file1 file2 file3

**Ques 5]**

**A.** column filename.txt

**B.** sort filename.txt

sort -r filename.txt

**C.** mkdir .aa .bb .c.txt

ls -a

**D.** touch -a file1.txt file2.txt

ls -t

ls -rt

**E.** ls –r

**F.** ls -l

**G.** ls –ld

**1)**

$ mkdir deepak

~$

~$ touch A.txt B.txt C.txt D.txt

~$

~$ chmod u-rwx deepak

**a)** ~$ chmod u+rw- bar

**b)** ~$ chmod +r--

**c)** ~$ chmod +x

**2)**chmod +x deepak

**3)**chmod -wx deepak

**4)**echo \* deepak

**5)**echo \* /etc/

**6)**find /etc -type f -name "\*.conf"

**7)**echo 'helloo' >> a.txt

1)

$ mkdir a

~$ cd a

~/a$ touch a.txt

~/a$ touch .hidden.txt

~/a$

**A.**

~/a$ mkdir b

~/a$ cd b

~/a/b$ touch b.txt

~/a/b$ touch .hidden.txt

**B.**

~/a/b$ mkdir c

~/a/b$ touch c.txt

~/a/b$ touch .hidden.txt

~/a/b$

**C.**

~/a/b$ cp -r c a

~/a/b$ cp -r a/a.txt a/b

**D.**

~/a/b$ cd

~$ cp -r a/a.txt a/b

~$

~$ cp -r a/c a/b

2)

~$chmod a=r c

3)permission denied

4)~$ mkdir data

5) ~$ chmod +rw b

6)~$ mkdir data2

7)~$ touch data.txt

8)~$ mv c copied\_dir

9)~$ chmod +x copied\_dir

10)~$ ls

11)permission denied for hidden file,c.txt file

12)~$ mv a/b/data/ a

13)~$ sudo chmod

14)~$ chmod o+rwx a

15)~$ mkdir sample

16)~$ mkdir x

17)~$ mv x a

18)~$ mkdir movies

21)~$ chmod a=rwx a

25)~$ rm b.txt