

**1. Script your file with filename that has your name**

```
[hadoop@fedora ~]$ script saniya
Script started, output log file is 'saniya'.
```

```
[hadoop@fedora ~]$ echo helloworld
helloworld
```

```
[hadoop@fedora ~]$ mkdir sb
[hadoop@fedora ~]$ echo cat bat mat
cat bat mat
```

```
[hadoop@fedora ~]$ exit
exit
Script done.
[hadoop@fedora ~]$
```

**2. save the calender of the year 2024 in the file cal24**

```
[hadoop@fedora ~]$ cal 2024 > cal24.txt
```

**3. save your last 5 commands in file hist.txt**

```
[hadoop@fedora ~]$ history | tail -n 5 | cat > hist.txt
```

**4. add first 6 commands from history to this filename**

```
[hadoop@fedora ~]$ history | head -n 6 | cat >> hist.txt
```

**5. Create file named input.txt with the following content using the echo commands**

```
Welcome to Unix Course
Unix is an operating system
Linux is a flavour of Unix and is freely available
[hadoop@fedora ~]$ echo -e "Welcome to Unix Course \n Unix is an operating system \n Linux is a
flavour of unix and is freely available" | cat > input.txt
```

**6. Save today's date in file cmd.txt without erasing the content of cmd.txt**

```
[hadoop@fedora ~]$ date | cat >> cmd.txt
```

**7. save the list of user names in file user.txt**

```
[hadoop@fedora ~]$ users | cat > user.txt
```

**8. Save the list of currently logged in users in file user\_cr.txt**

```
[hadoop@fedora ~]$ who | cat > user_cr.txt
```

**9. find out how long cpu was idle**

```
[Admin@localhost ~]$ w
13:11:25 up 2:11, 1 user, load average: 0.26, 0.20, 0.13
USER  TTY      LOGIN@  IDLE   JCPU   PCPU   WHAT
Admin  tty1    05:30   7:41m  6:09   26.68s /usr/lib64/libreoffice/progra
```

**10. display the whole calendar for the current year → [hadoop@fedora ~]\$ cal -y**

**11. create a file that contains sequences up to n numbers, (n is an initialized variable) use bc**

```
[Admin@localhost ~]$ n=10
[Admin@localhost ~]$ seq $n > sequence.txt
[Admin@localhost ~]$ cat sequence.txt
1
2
3
4
5
6
7
8
9
10
```

**12. display the following formatted output**

```
Bold → [hadoop@fedora ~]$ tput bold
color → [hadoop@fedora ~]$ tput setaf 9
[hadoop@fedora ~]$ tput setab 2
```

**13. using command bc, calculate the values of the following expressions**

a.  $(1456+234)/45$

```
[hadoop@fedora ~]$ bc
```

```
bc 1.07.1
```

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```
(1456+234)/45
```

```
37
```

**b. Assign value 10 to var X, then increment by 1, Display the value after increment**

```
x=10
```

```
x=x+1
```

```
x
```

```
1
```

**c. X=10, Y=20 compare values of X and Y and display the result**

```
x=10
```

```
y=20
```

```
x>y use if
```

```
0
```

**d. Find logical AND of 10 and 20**

10 && 20

1

**e. Find sin 30, cos 30, sin 90, cos60**

sin(30\*4\*a(1)/180)

Runtime error (func=(main), adr=11): Function a not defined.

s(30\*4\*a(1)/180)

Runtime error (func=(main), adr=11): Function a not defined.

**f. Find the length of the number (no of digits)**

length(1234567)

7

**g. convert decimal 10 to binary**

obase=2

10

1010

**h. Convert decimal 58 to octal**

obase=8

58

72

**I. convert binary 10111 to octal**

ibase=2

obase=8

10111

27

**j. convert binary to 1011 to decimal**

ibase=2

1011

13

**14. Find the error if any in each of the foll commands**

a. \$cal -> no error

b. \$cal -u → invalid option -- 'u'

c. \$cal 1944 → no error

d. \$cal jan → no error

e. \$echo echo → no error

f. \$echo-u hello → echo-u: command not found...

g. \$echo -u hello → -u hello

h. \$echo "-u hello" → -u hello