

LAB1

1a) Date and calendar:

CODE:

```
#!/bin/sh
```

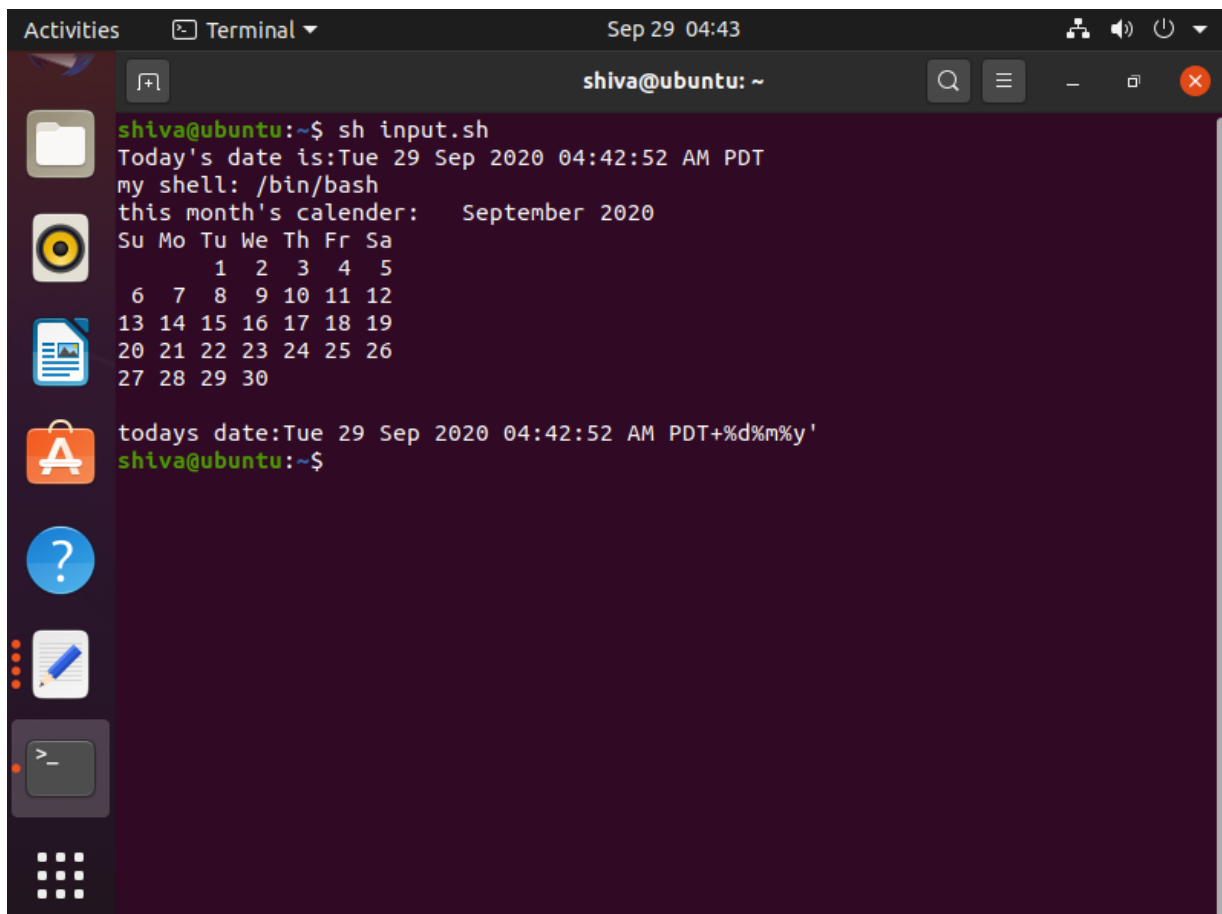
```
echo "Today's date is:`date`"
```

```
echo "my shell: $SHELL"
```

```
echo "this month's calender:`cal`"
```

```
echo "todays date:`date`"+%d%m%y""
```

OUTPUT:



The screenshot shows a terminal window titled "shiva@ubuntu: ~" with a search icon, a menu icon, and window control buttons. The terminal displays the output of a script named "input.sh". The output includes the current date and time, the shell type, a calendar for September 2020, and the date formatted with a specific pattern.

```
shiva@ubuntu:~$ sh input.sh
Today's date is:Tue 29 Sep 2020 04:42:52 AM PDT
my shell: /bin/bash
this month's calender:  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

todays date:Tue 29 Sep 2020 04:42:52 AM PDT+%d%m%y'
shiva@ubuntu:~$
```

1b) Simple calculator:

CODE:

```
#!/bin/sh

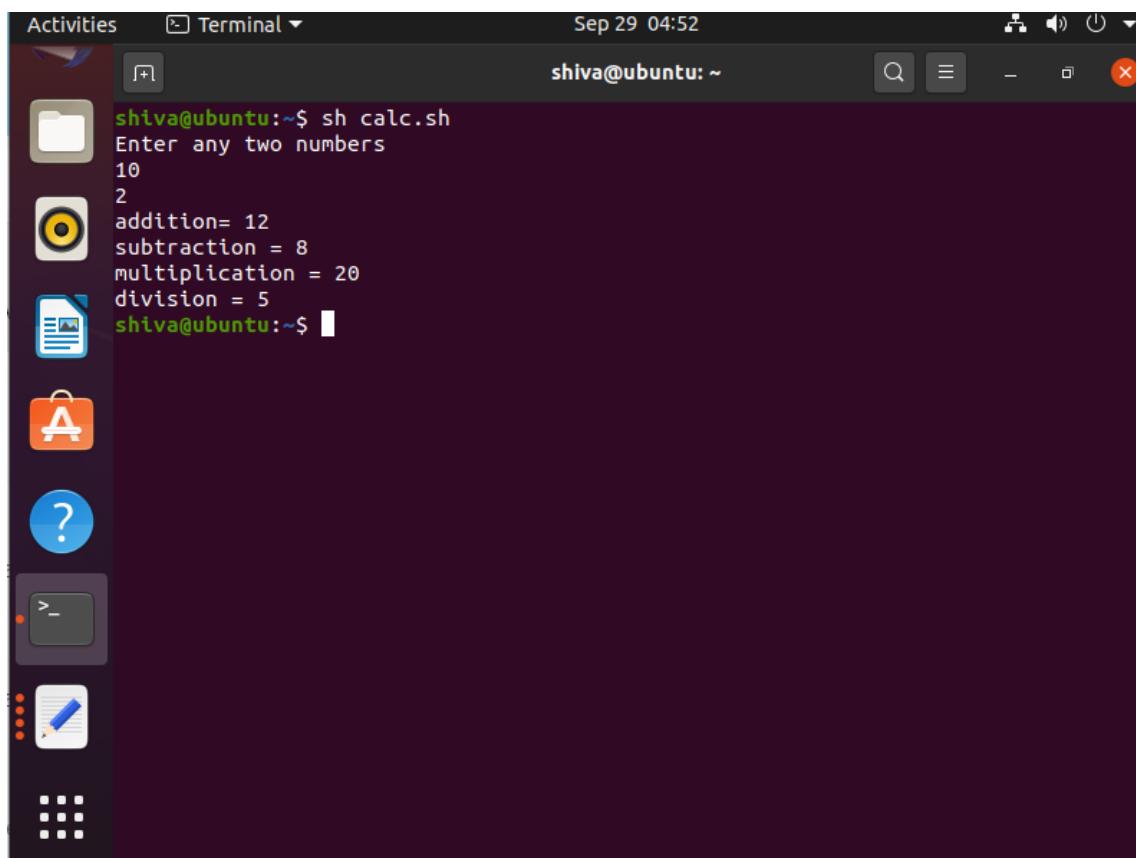
echo "Enter any two numbers"

read a
read b

ad1=`expr $a + $b`
sb1=`expr $a - $b`
p1=`expr $a \* $b`
d1=`expr $a / $b`

echo "addition= $ad1"
echo "subtraction = $sb1"
echo "multiplication = $p1"
echo "division = $d1"
```

OUTPUT:

A screenshot of a Linux terminal window. The window title is "Terminal" and the date/time is "Sep 29 04:52". The user is "shiva@ubuntu". The prompt is "~". The user has run the command "sh calc.sh". The script prompts "Enter any two numbers". The user has entered "10" and "2". The script outputs: "addition= 12", "subtraction = 8", "multiplication = 20", and "division = 5". The prompt is now "shiva@ubuntu:~\$".

```
shiva@ubuntu:~$ sh calc.sh
Enter any two numbers
10
2
addition= 12
subtraction = 8
multiplication = 20
division = 5
shiva@ubuntu:~$
```

1C) File functions:

CODE:

```
#!/bin/sh

echo "Enter the filename 1"

read fname1

cat $fname1

echo "Enter the filename 2"

read fname2

cat $fname2

echo "Copying Contents of file 1 to file 2"

cp $fname1 $fname2

echo "FILE 1"

cat $fname1

echo "FILE 2"

cat $fname2

ls

echo "Enter the filename 3 to be renamed"

read fname3

echo "Enter the new filename"

read fname4

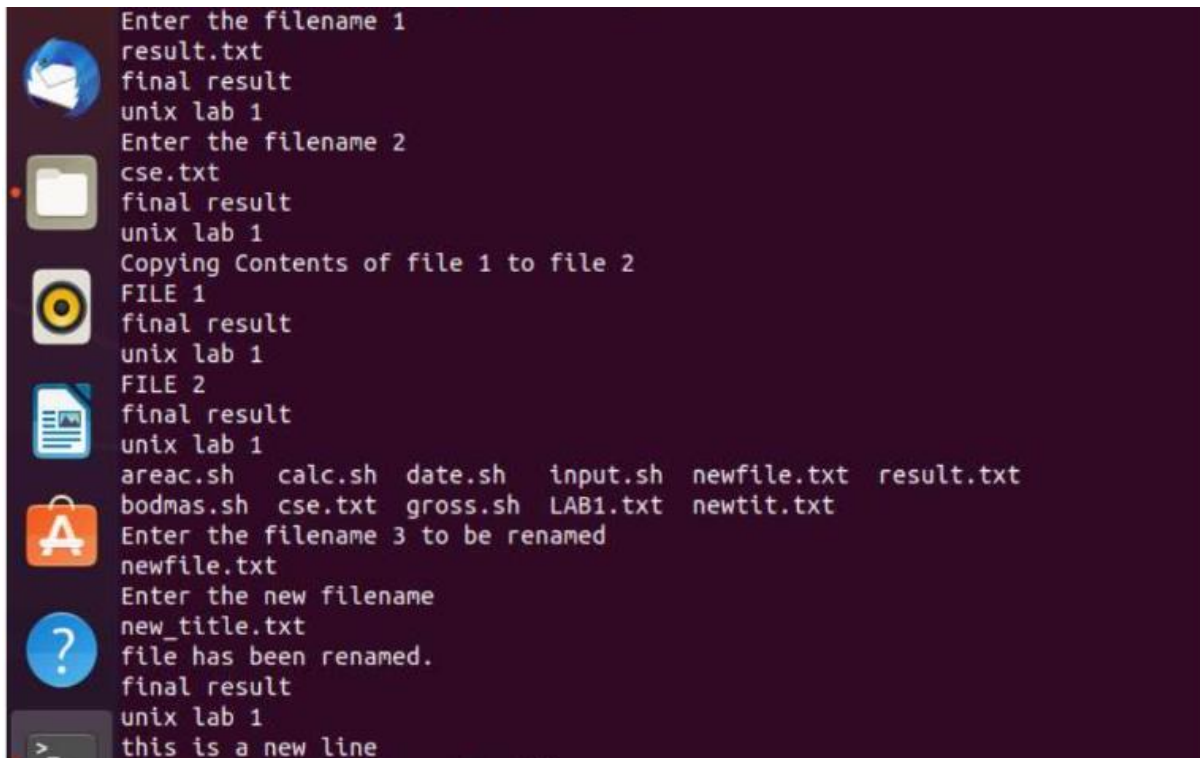
mv $fname3 $fname4

cat $fname4

echo "this is a new line">>$fname1

cat $fname1
```

OUTPUT:



```
Enter the filename 1
result.txt
final result
unix lab 1
Enter the filename 2
cse.txt
final result
unix lab 1
Copying Contents of file 1 to file 2
FILE 1
final result
unix lab 1
FILE 2
final result
unix lab 1
areac.sh  calc.sh  date.sh  input.sh  newfile.txt  result.txt
bodmas.sh cse.txt  gross.sh LAB1.txt  newtit.txt
Enter the filename 3 to be renamed
newfile.txt
Enter the new filename
new_title.txt
file has been renamed.
final result
unix lab 1
this is a new line
```

1D) Gross salary calculation:

CODE:

```
#!/bin/sh

echo "Enter the basic salary of employee:"

read sal

gross=$((sal+((sal/100)*20)+((sal/100)*30)))

echo "The gross salary : $gross"
```

OUTPUT:

```
Activities Terminal Sep 29 05:06 shiva@ubuntu: ~  
shiva@ubuntu:~$ sh lab1.sh  
Enter the basic salary of employee:  
100000  
The gross salary : 150000  
shiva@ubuntu:~$
```