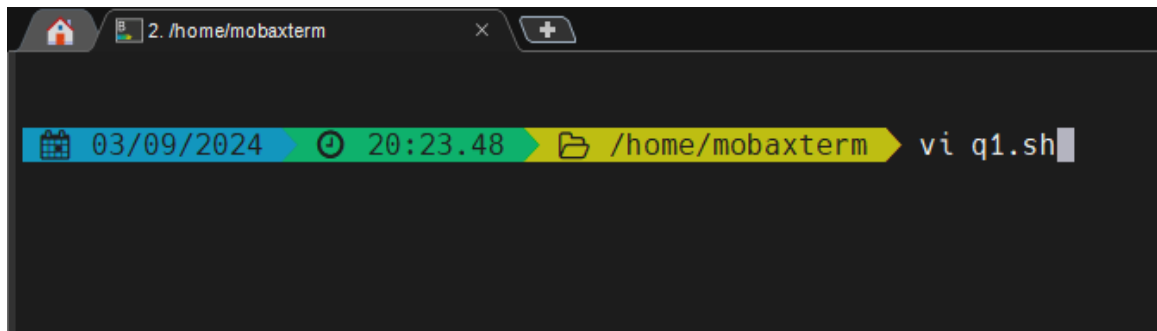
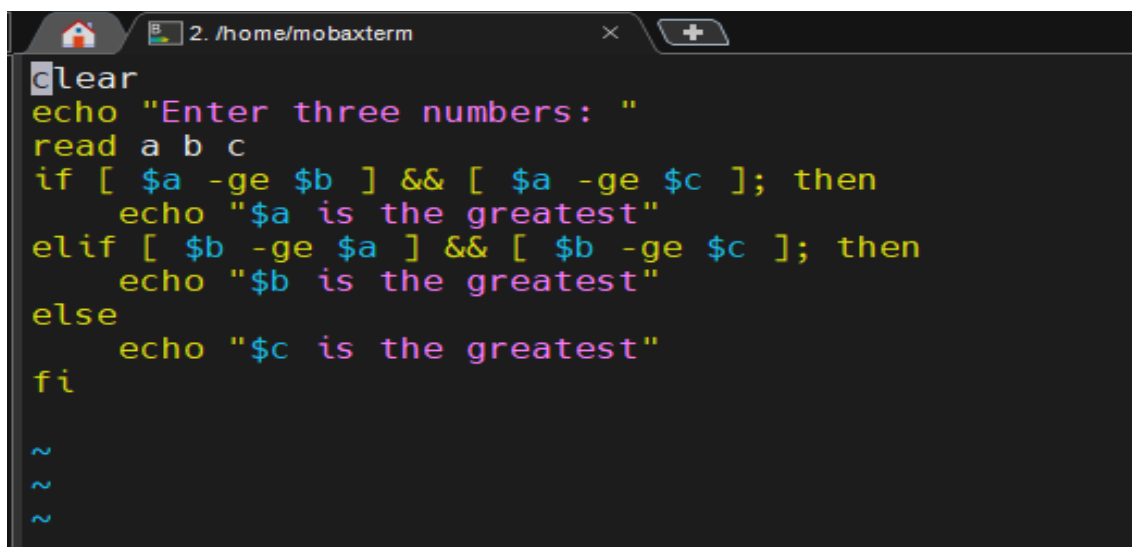


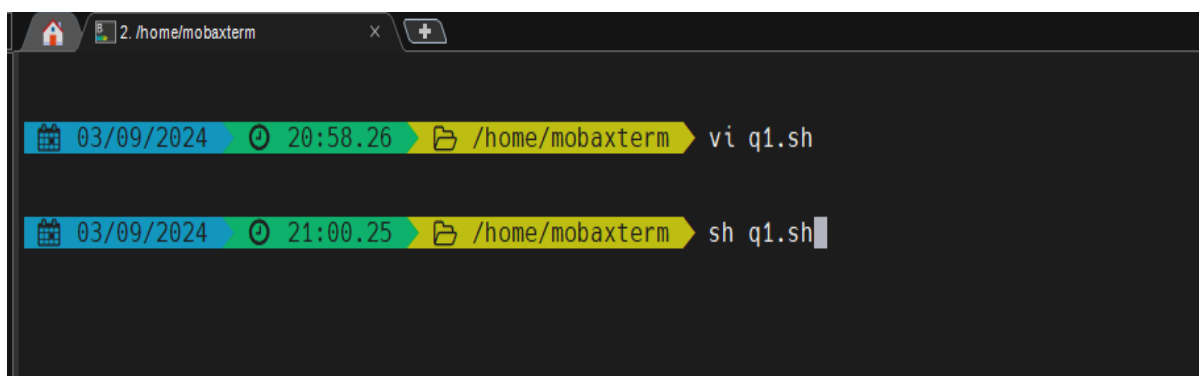
1. Write a shell script to find greatest amongst three numbers.



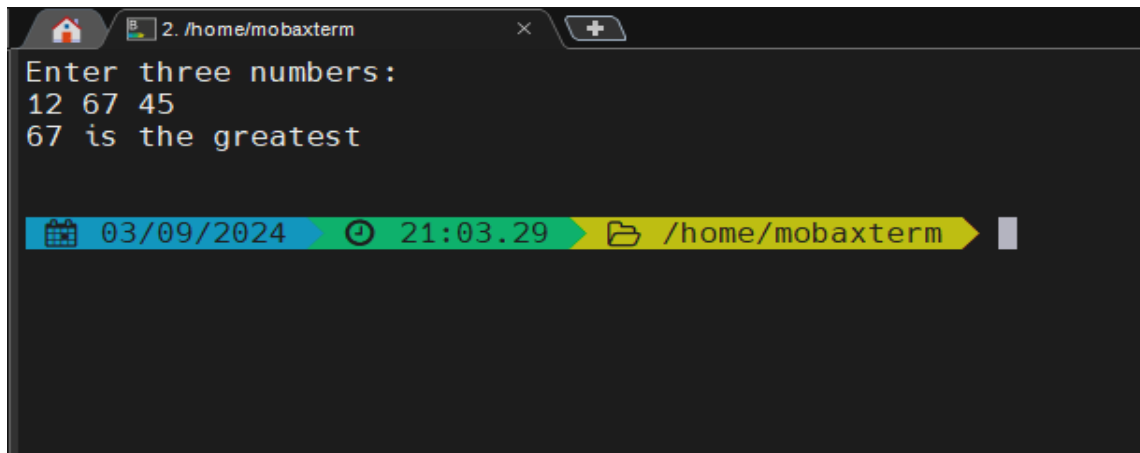
```
03/09/2024 20:23.48 /home/mobaxterm vi q1.sh
```



```
clear
echo "Enter three numbers: "
read a b c
if [ $a -ge $b ] && [ $a -ge $c ]; then
    echo "$a is the greatest"
elif [ $b -ge $a ] && [ $b -ge $c ]; then
    echo "$b is the greatest"
else
    echo "$c is the greatest"
fi
~
~
~
~
```



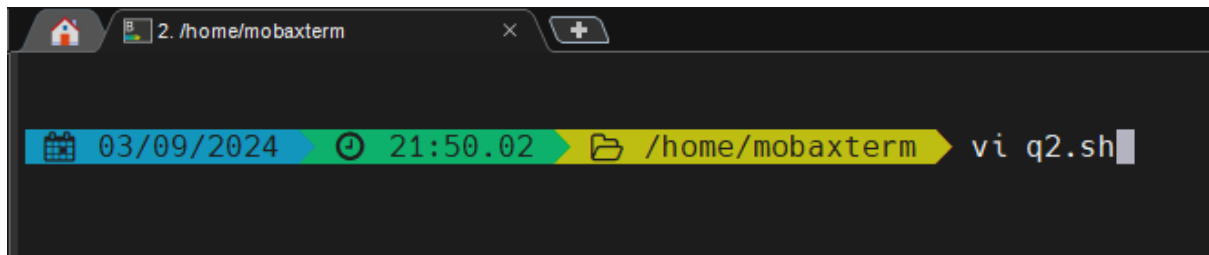
```
03/09/2024 20:58.26 /home/mobaxterm vi q1.sh
03/09/2024 21:00.25 /home/mobaxterm sh q1.sh
```



A terminal window titled "2. /home/mobaxterm" with a close button and a plus icon. The window contains the following text:  
Enter three numbers:  
12 67 45  
67 is the greatest  
Below the text is a status bar with a calendar icon, the date "03/09/2024", a clock icon, the time "21:03.29", a folder icon, the path "/home/mobaxterm", and a cursor.

```
2. /home/mobaxterm
Enter three numbers:
12 67 45
67 is the greatest
03/09/2024 21:03.29 /home/mobaxterm
```

**2. Write a shell script to find all prime numbers in given range.**



A terminal window titled "2. /home/mobaxterm" with a close button and a plus icon. The window contains the following text:  
Below the text is a status bar with a calendar icon, the date "03/09/2024", a clock icon, the time "21:50.02", a folder icon, the path "/home/mobaxterm", and the command "vi q2.sh" followed by a cursor.

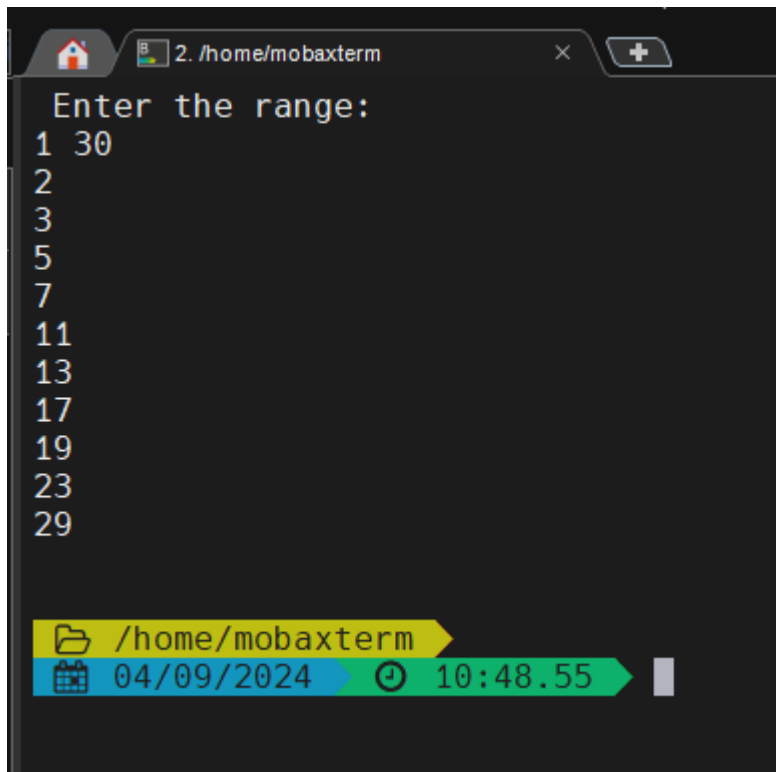
```
2. /home/mobaxterm
03/09/2024 21:50.02 /home/mobaxterm vi q2.sh
```

```
clear

echo " Enter the range: "
read start end
for ((num=$start; num<=$end; num++))
do
    if [ $num -le 1 ]; then
        continue
    fi
    is_prime=1
    for((i=2; i<=num/2 ;i++))
    do
        if [ $(num % i) -eq 0 ]; then
            is_prime=0
            break
        fi
    done
    if [ $is_prime -eq 1 ]; then
        echo "$num"
    fi
done
```

```
/home/mobaxterm
04/09/2024 10:50.23 vi q2.sh

/home/mobaxterm
04/09/2024 10:50.29 sh q2.sh
```

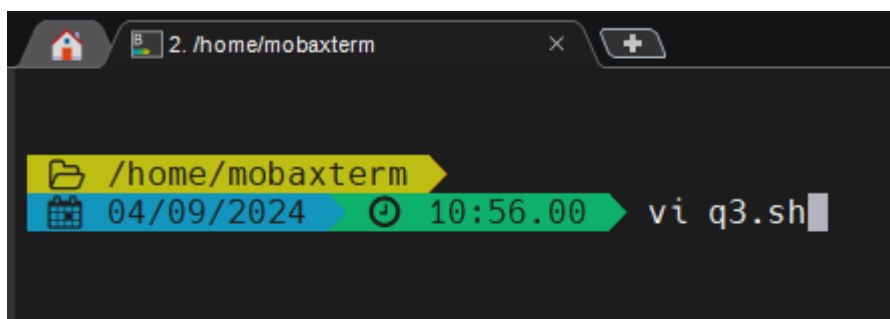


A screenshot of a MobaXterm terminal window. The title bar shows a home icon, a tab labeled '2. /home/mobaxterm', and window control buttons. The terminal content displays the prompt 'Enter the range:' followed by a list of numbers: 1, 30, 2, 3, 5, 7, 11, 13, 17, 19, 23, and 29. At the bottom, a status bar shows a folder icon, the path '/home/mobaxterm', a calendar icon, the date '04/09/2024', a clock icon, and the time '10:48.55'.

```
Enter the range:
1 30
2
3
5
7
11
13
17
19
23
29
```

3. Write a shell script to draw following pattern.

```
*
* *
* * *
* * * *
* * * * *
```



A screenshot of a MobaXterm terminal window. The title bar shows a home icon, a tab labeled '2. /home/mobaxterm', and window control buttons. The terminal content shows the status bar with a folder icon, the path '/home/mobaxterm', a calendar icon, the date '04/09/2024', a clock icon, the time '10:56.00', and the command 'vi q3.sh' with a cursor at the end.

```
vi q3.sh
```

```
clear
for ((i=1; i<=5; i++))
do
    for ((j=2; j<=i; j++))
    do
        echo -n "*"
    done
    echo
done
```

2. /home/mobaxterm

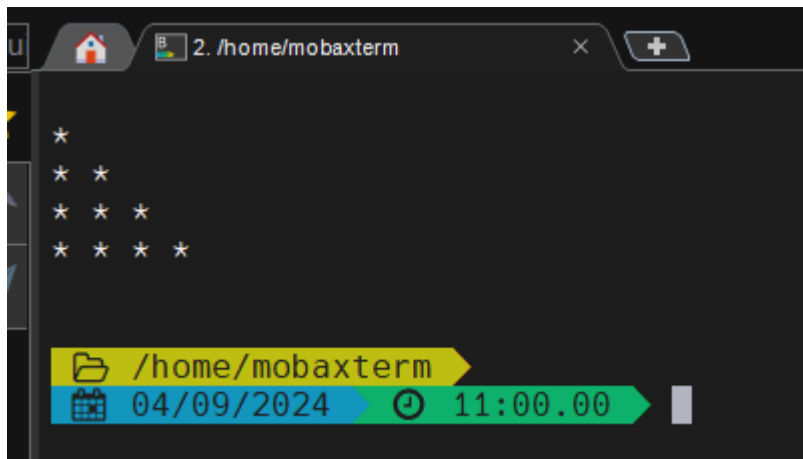
/home/mobaxterm

04/09/2024 10:56.00 vi q3.sh

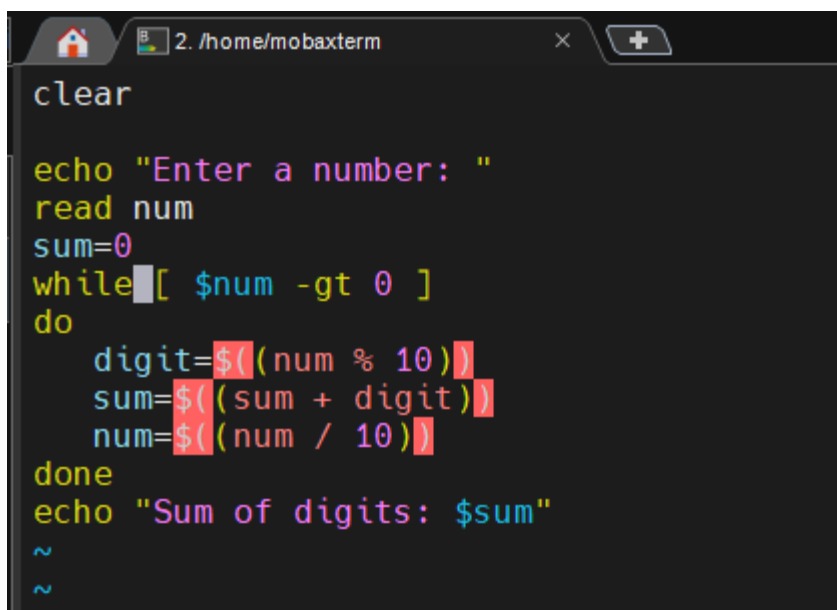
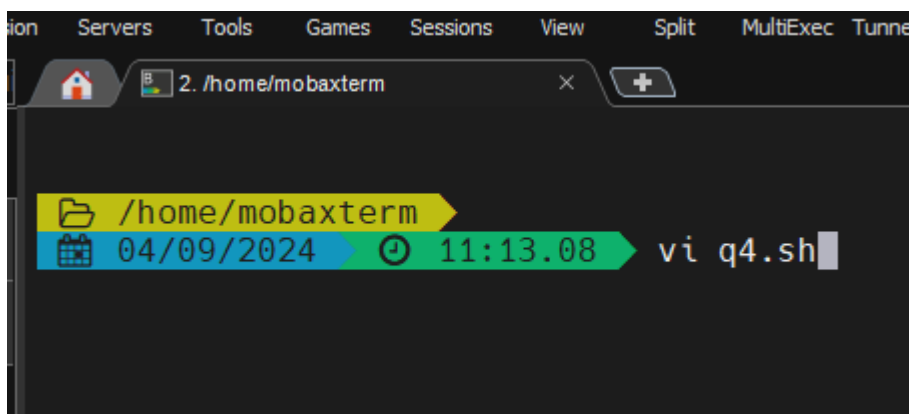
Macros

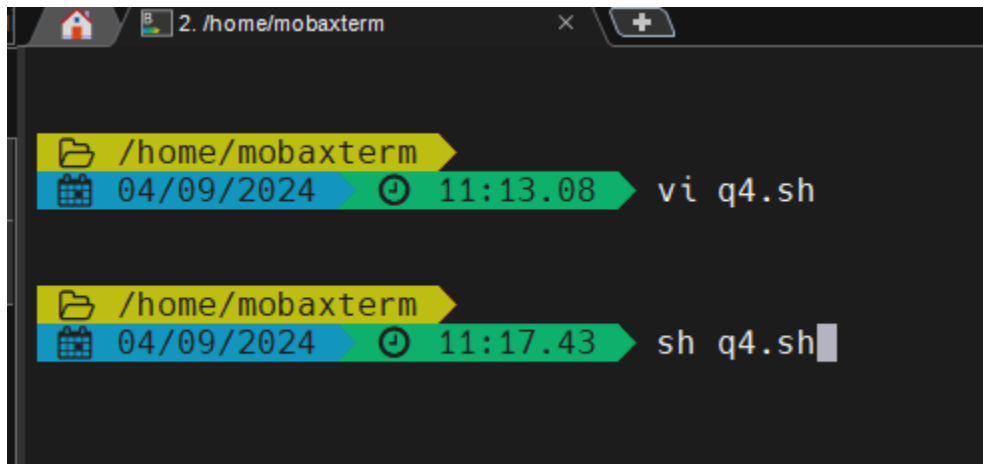
/home/mobaxterm

04/09/2024 10:59.23 sh q3.sh

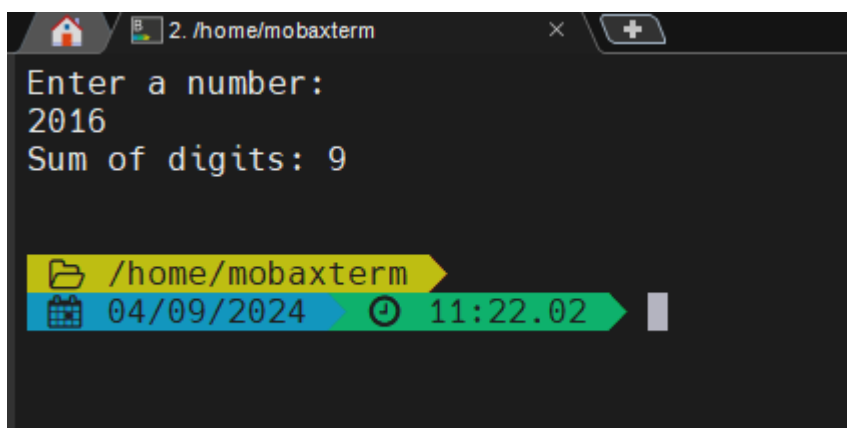


4. Write a shell script to find sum of digits of a number.



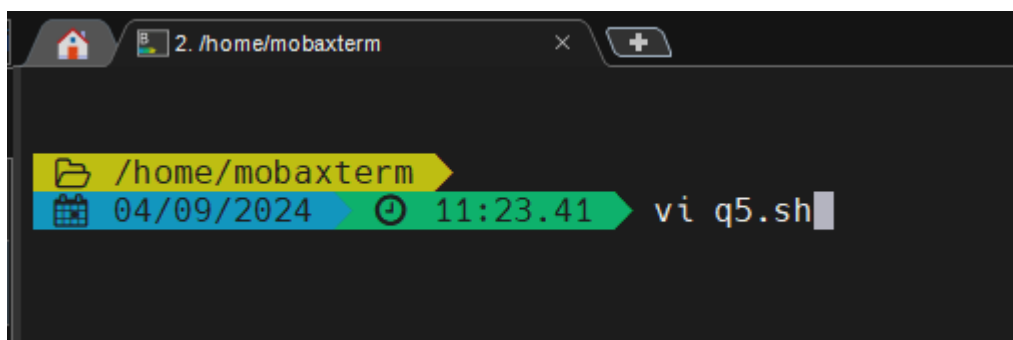


```
2. /home/mobaxterm  
/home/mobaxterm  
04/09/2024 11:13.08 vi q4.sh  
/home/mobaxterm  
04/09/2024 11:17.43 sh q4.sh
```



```
2. /home/mobaxterm  
Enter a number:  
2016  
Sum of digits: 9  
/home/mobaxterm  
04/09/2024 11:22.02
```

**5. Write a shell script to print fibonacci series upto entered value N.**



```
2. /home/mobaxterm  
/home/mobaxterm  
04/09/2024 11:23.41 vi q5.sh
```

```
clear

echo "Enter a value of N: "
read N
a=0
b=1

echo "Fibonacci Series: "
echo "$a"
echo "$b"
for ((i=2; i<=N; i++))
do
    fib=$((a+b))
    echo "$fib"
    a=$b
    b=$fib
done
~
~
```

```
/home/mobaxterm
04/09/2024 11:23.41 vi q5.sh

/home/mobaxterm
04/09/2024 11:27.45 sh q5.sh
```



```
2. /home/mobaxterm
Enter a value of N:
20
Fibonacci Series:
0
1
1
2
3
5
8
13
21
34
55
89
144
233
377
610
987
1597
2584
4181
6765
```

**6. Write a menu driven shell script which accepts basic amount as an input and displays following options.**

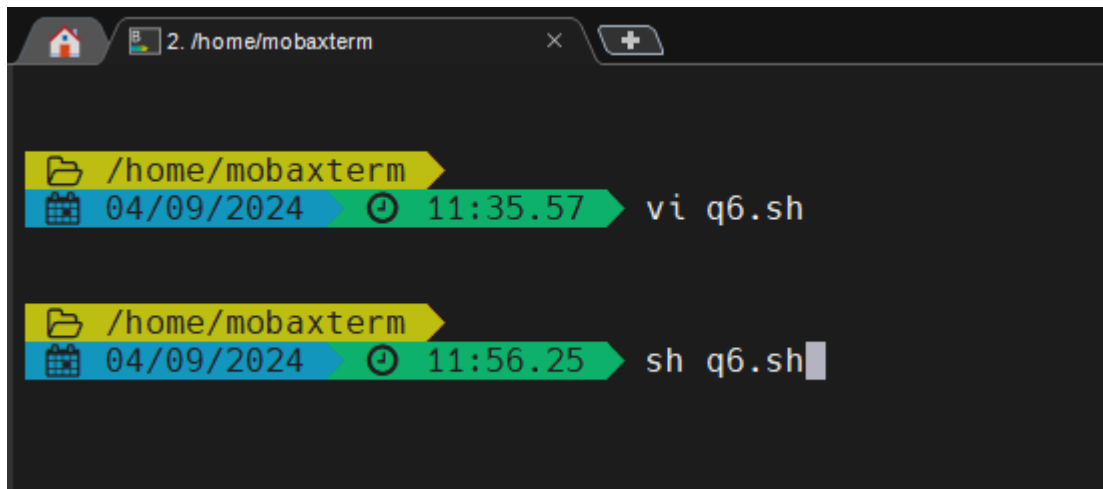
- a. Dearness allowance (90% of basic)**
- b. Provident Fund F (12% of basic)**
- c. House Rent Allowance ( 20% of basic + DA)**
- d. Income tax deducted (5% of basic + DA + HRA)**
- e. Take home salary (basic + DA + HRA – IT)**



```
clear
echo "Enter a basic amount: "
read basic
echo "Choose an option:"
echo "a. Dearness allowance (90% of basic)"
echo "b. provident Fund (12% of basic)"
echo "c. House Rent Allowance (20% of basic + DA)"
echo "d. Income tax deducted (5% of basic + DA + HRA)"
echo "e. Take Home Salary (basic + DA + HRA - IT)"
read choice

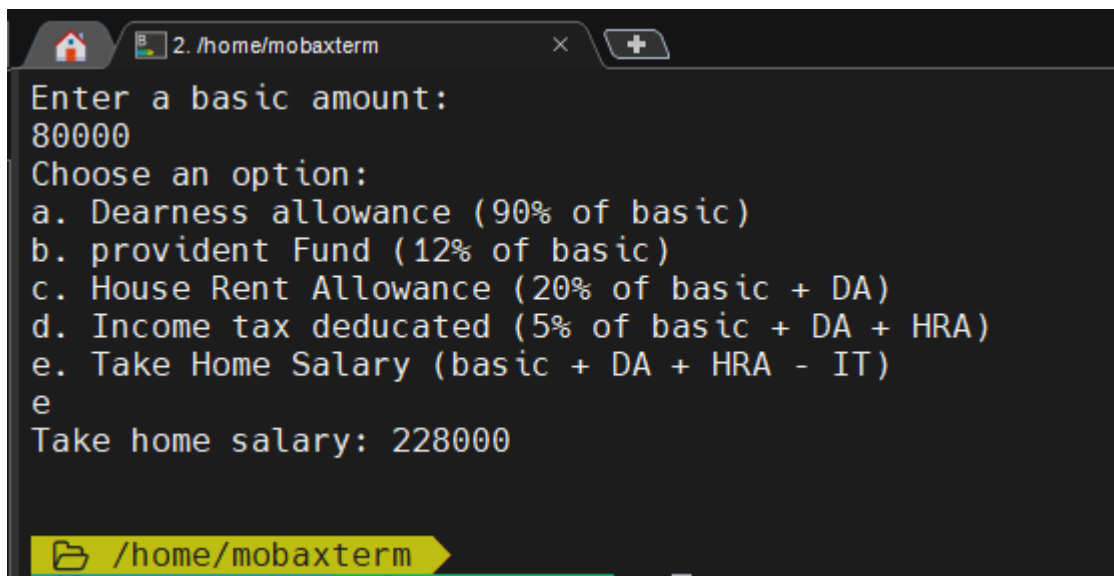
da=$((basic * 90 / 100))
pf=$((basic * 12 / 100))
hra=$((basic * 20 / 100 + da))
it=$((basic * 5 / 100 + da * 5 / 100 + hra * 5 / 100))
take_home=$((basic + da + hra - it))

case $choice in
    a|a\)) echo "Dearness allowance: $da";;
    b|b\)) echo "Provident Fund: $pf";;
    c|c\)) echo "House Rent Allowance: $hra";;
    d|d\)) echo "Income tax: $it";;
    e|e\)) echo "Take home salary: $take_home";;
    *) echo "Invalid choice";;
esac
~
~
```



The screenshot shows a terminal window with a dark background. At the top, there is a tab labeled '2. /home/mobaxterm'. Below the tab, there are two command prompts. The first prompt shows the current directory as '/home/mobaxterm' and the date and time as '04/09/2024 11:35.57'. The command 'vi q6.sh' is entered. The second prompt shows the same directory and date/time, but the time is now '11:56.25'. The command 'sh q6.sh' is entered, and a cursor is visible at the end of the command.

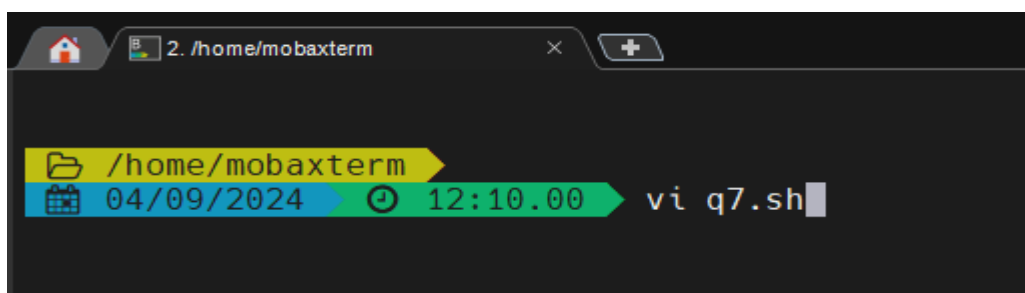
```
/home/mobaxterm  
04/09/2024 11:35.57 vi q6.sh  
  
/home/mobaxterm  
04/09/2024 11:56.25 sh q6.sh
```



The screenshot shows a terminal window with a dark background. At the top, there is a tab labeled '2. /home/mobaxterm'. Below the tab, the output of the script is displayed. It starts with 'Enter a basic amount:' followed by '80000'. Then it says 'Choose an option:' followed by a list of options: 'a. Dearness allowance (90% of basic)', 'b. provident Fund (12% of basic)', 'c. House Rent Allowance (20% of basic + DA)', 'd. Income tax deducted (5% of basic + DA + HRA)', and 'e. Take Home Salary (basic + DA + HRA - IT)'. The user has entered 'e', and the output shows 'Take home salary: 228000'. At the bottom, there is a command prompt showing the current directory as '/home/mobaxterm'.

```
Enter a basic amount:  
80000  
Choose an option:  
a. Dearness allowance (90% of basic)  
b. provident Fund (12% of basic)  
c. House Rent Allowance (20% of basic + DA)  
d. Income tax deducted (5% of basic + DA + HRA)  
e. Take Home Salary (basic + DA + HRA - IT)  
e  
Take home salary: 228000  
  
/home/mobaxterm
```

**7. Write a shell script to find file permissions of user, group and others.**



The screenshot shows a terminal window with a dark background. At the top, there is a tab labeled '2. /home/mobaxterm'. Below the tab, there is a command prompt showing the current directory as '/home/mobaxterm' and the date and time as '04/09/2024 12:10.00'. The command 'vi q7.sh' is entered, and a cursor is visible at the end of the command.

```
/home/mobaxterm  
04/09/2024 12:10.00 vi q7.sh
```

```
clear

echo "Enter the filename: "
read filename
if [ -e $filename ]; then
    echo "File permission for $filename:"
    ls -l $filename | cut -d ' ' -f 1
else
    echo "File does not exist"
fi
~
~
```

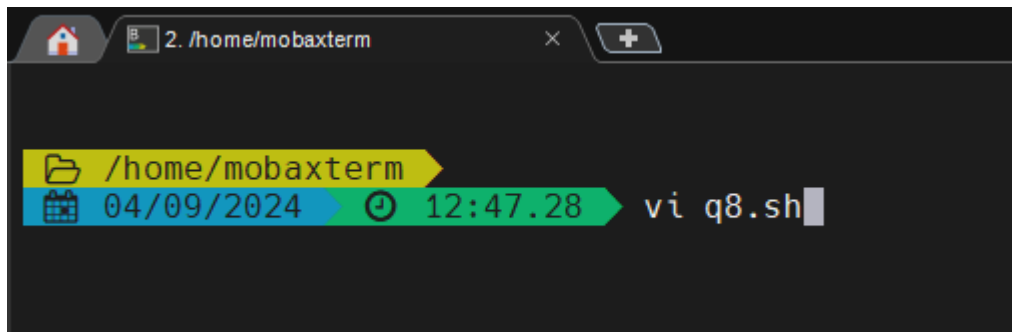
```
/home/mobaxterm
04/09/2024 12:10.00 vi q7.sh

/home/mobaxterm
04/09/2024 12:41.39 sh q7.sh
```

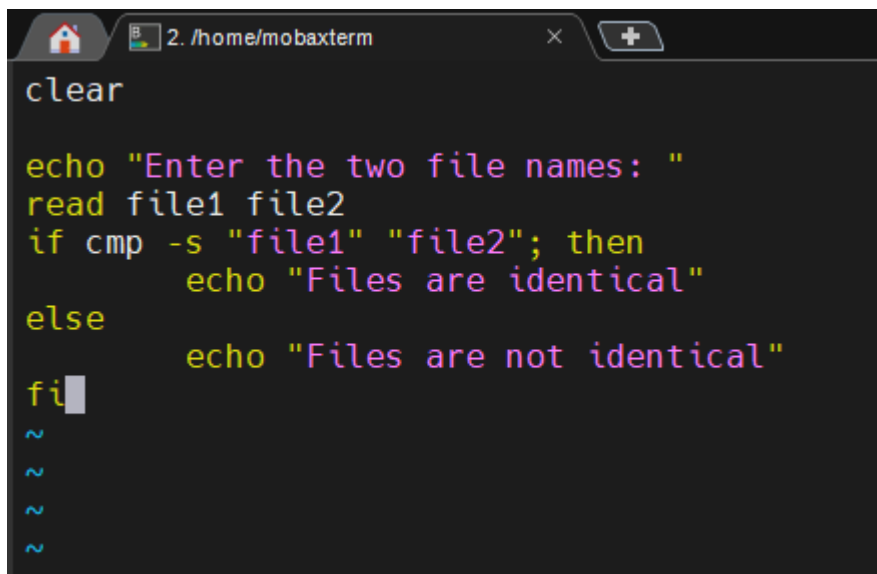
```
Enter the filename:
q1.sh
File permission for q1.sh:
-rw-r--r-- 1 DELL UsersGrp 227 Sep 3 21:02 q1.sh ✓

/home/mobaxterm
04/09/2024 12:42.47
```

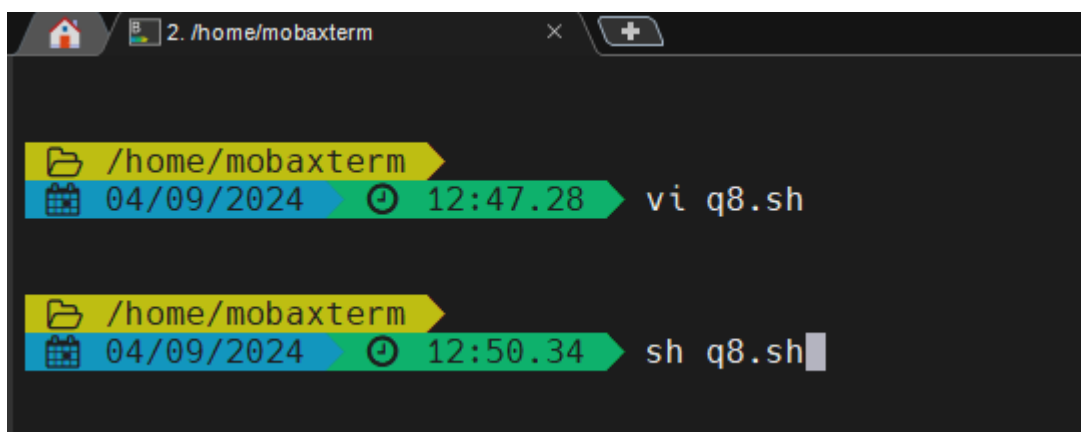
8. Write a shell script that accepts two files are identical or not.



A screenshot of a MobaXterm terminal window. The title bar shows a home icon, a tab labeled '2. /home/mobaxterm', and a close button. The terminal content shows a directory path '/home/mobaxterm' in a yellow bar, followed by a date and time bar '04/09/2024 12:47.28', and the command 'vi q8.sh' with a cursor at the end.



A screenshot of a MobaXterm terminal window showing the contents of a shell script. The script starts with 'clear', followed by a prompt 'echo "Enter the two file names: "', then 'read file1 file2'. It contains an 'if' statement: 'if cmp -s "file1" "file2"; then echo "Files are identical" else echo "Files are not identical" fi'. The script ends with four tilde characters '~' on separate lines.



A screenshot of a MobaXterm terminal window showing two commands. The first command is 'vi q8.sh' entered at 12:47.28. The second command is 'sh q8.sh' entered at 12:50.34. Both commands are preceded by a directory path '/home/mobaxterm' in a yellow bar and a date and time bar '04/09/2024'.

The screenshot shows a MobaXterm terminal window with the title bar '2. /home/mobaxterm'. The terminal output is as follows:

```
Enter the two file names:
n1 n2
Files are not identical
```

Below this, there are three command execution bars. The first bar shows the command `cat n1` executed on 04/09/2024 at 12:57.44, with the output:

```
1
2
3
4
```

The second bar shows the command `cat n2` executed on 04/09/2024 at 12:58.21, with the output:

```
1
2
3
4
5
```

The third bar shows the command `cat n1` executed on 04/09/2024 at 12:58.27, with no visible output.

9. Write a shell script to display all the words, having length <4 characters, of a file f1.txt.

The screenshot shows a MobaXterm terminal window with the title bar '2. /home/mobaxterm'. The terminal output is as follows:

```
09/09/2024 17:22.06 /home/mobaxterm cat f1.txt
Hello! My name is Shubhangi.
I am student at SDJ International College.
```

Below this, there is a command execution bar showing the command `cat f1.txt` executed on 09/09/2024 at 17:22.09, with no visible output.

```
clear

echo "Enter filename: "
read filename
if [ -f $filename ]; then
    grep -oE '\b\w{1,3}\b' $filename
else
    echo "File does not exist."
fi
```

```
Enter filename:
f1.txt
My
is
I
am
at
SDJ
```

/home/mobaxterm 09/09/2024 17:31.54

10. Write a shell script to find total number of files and total number of directories in current working directory.

```
/home/mobaxterm 09/09/2024 17:38.15 vi q10.sh
```

```
clear

files=$(ls -l | grep "^-" | wc -l)
directories=$(ls -l | grep "^d" | wc -l)
echo "Total files: $files"
echo "Total directories: $directories"
```

```
Total files: 11
Total directories: 1

/home/mobaxterm
09/09/2024 17:39.12 ls
Desktop      project      q3.sh        q7.sh
LauncherFolder q1.sh        q4.sh        q8.sh
MyDocuments  q10.sh       q5.sh        q9.sh
f1.txt       q2.sh        q6.sh
```

**11. Write a shell script to find total number of characters, words and lines of a file. (Do not use wc command.)**

```
/home/mobaxterm
09/09/2024 17:39.41 vi q11.sh
```



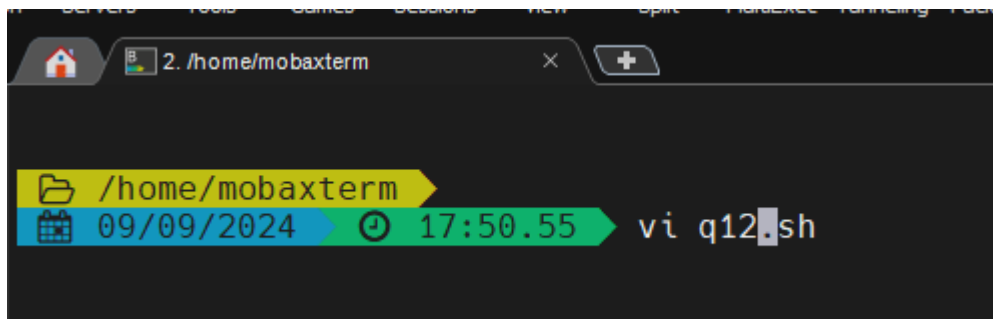
```
clear

echo "Enter filename: "
read filename
if [ -f $filename ]; then
    characters=$(cat $filename | tr -d '\n' | wc -c)
    words=$(cat $filename | wc -w)
    lines=$(cat $filename | wc -l)
    echo "Characters: $characters"
    echo "Words: $words"
    echo "Lines: $lines"
else
    echo "File does not exist."
fi
```

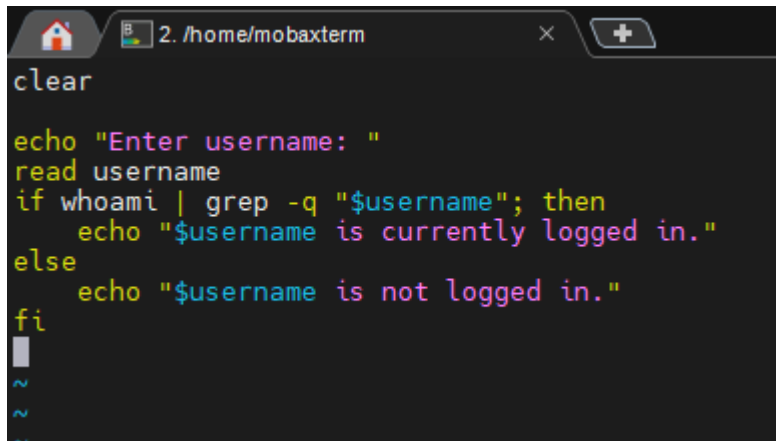
```
Enter filename:
f1.txt
Characters: 70
Words: 12
Lines: 3

/home/mobaxterm
09/09/2024 17:47.09 cat f1.txt
Hello! My name is Shubhangi.
I am student at SDJ International College.
```

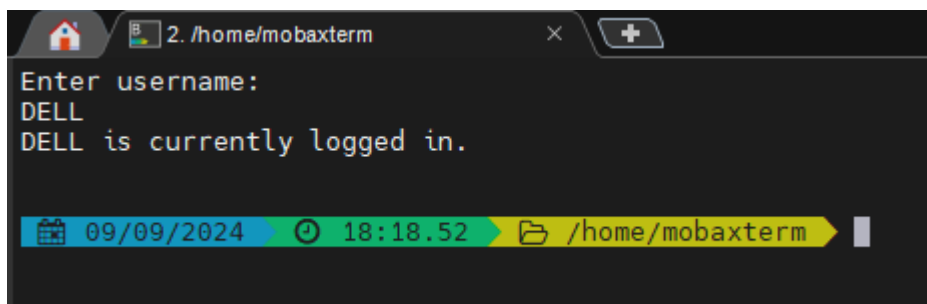
**12. Write a shell script which accepts a username and check the entered user is currently logged in or not.**



```
2. /home/mobaxterm  
/home/mobaxterm  
09/09/2024 17:50.55 vi q12.sh
```

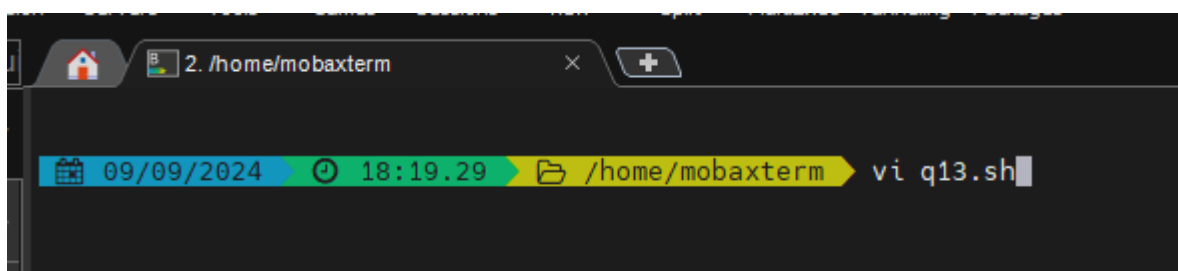


```
2. /home/mobaxterm  
clear  
echo "Enter username: "  
read username  
if whoami | grep -q "$username"; then  
    echo "$username is currently logged in."  
else  
    echo "$username is not logged in."  
fi  
~  
~  
~
```



```
2. /home/mobaxterm  
Enter username:  
DELL  
DELL is currently logged in.  
09/09/2024 18:18.52 /home/mobaxterm
```

**13. Write a shell script to find total number of occurrences of SDJIC in given file. (Please provide necessary validations.)**



```
2. /home/mobaxterm  
09/09/2024 18:19.29 /home/mobaxterm vi q13.sh
```

```
clear

echo "Enter filename: "
read filename
if [ -f $filename ]; then
    count=$(grep -o "SDJIC" $filename | wc -l)
    echo "SDJIC occurred $count times in $filename"
else
    echo "File does not exist."
fi
```

```
Enter filename:
file.txt
SDJIC occurred 6 times in file.txt

09/09/2024 21:14.06 /home/mobaxterm cat file.txt
SDJIC is renowned for its exceptional academic programs and vibrant campus life. S
tudents at SDJIC enjoy a wide range of extracurricular activities, making their co
llege experience both educational and enjoyable. The faculty at SDJIC is highly ex
perienced, providing students with the knowledge and skills needed to succeed in t
heir respective fields. Furthermore, SDJIC regularly hosts seminars and workshops
to ensure that students are well-prepared for their future careers. Many alumni of
SDJIC have gone on to achieve great success, attributing their accomplishments to
the strong foundation they received at the college. With its commitment to excell
ence, SDJIC continues to be a top choice for students seeking quality education.
```

**14. Write a shell script which accepts filename as input and reverse individual words from it. (Please provide necessary validations)**

```
clear

echo "Enter filename: "
read filename

if [ -f $filename ]; then
    while IFS= read -r line
    do
        for word in $line
        do
            echo -n "${echo $word | rev}"
        done
        echo
    done < $filename
else
    echo "File does not exist."
fi
```

```
Enter filename:
f1.txt
!olleHyMemansi.ignahbuhs
ImatnedutstaJDSlanoitanretnI.egelloC
```

15. Write grep command to perform following actions:

a. Count number of blank lines in file f1.txt

```
09/09/2024 21:34.51 /home/mobaxterm cat f1.txt
Hello! My name is Shubhangi.

I am student at SDJ International College.

09/09/2024 21:34.54 /home/mobaxterm grep -c '^$' f1.txt
2
```

b. print all lines containing sdjic.

```
09/09/2024 21:47.44 /home/mobaxterm grep 'SDJIC' file.txt
SDJIC is renowned for its exceptional academic programs and vibrant campus life.
Students at SDJIC enjoy a wide range of extracurricular activities, making their college experience both educational and enjoyable.
The faculty at SDJIC is highly experienced, providing students with the knowledge and skills needed to succeed in their respective fields.
Furthermore, SDJIC regularly hosts seminars and workshops to ensure that students are well-prepared for their future careers.
With its commitment to excellence, SDJIC continues to be a top choice for students seeking quality education.
```

c. print the lines that starts with sdjic.

```
09/09/2024 21:48.29 /home/mobaxterm grep '^SDJIC' file.txt
SDJIC is renowned for its exceptional academic programs and vibrant campus life.

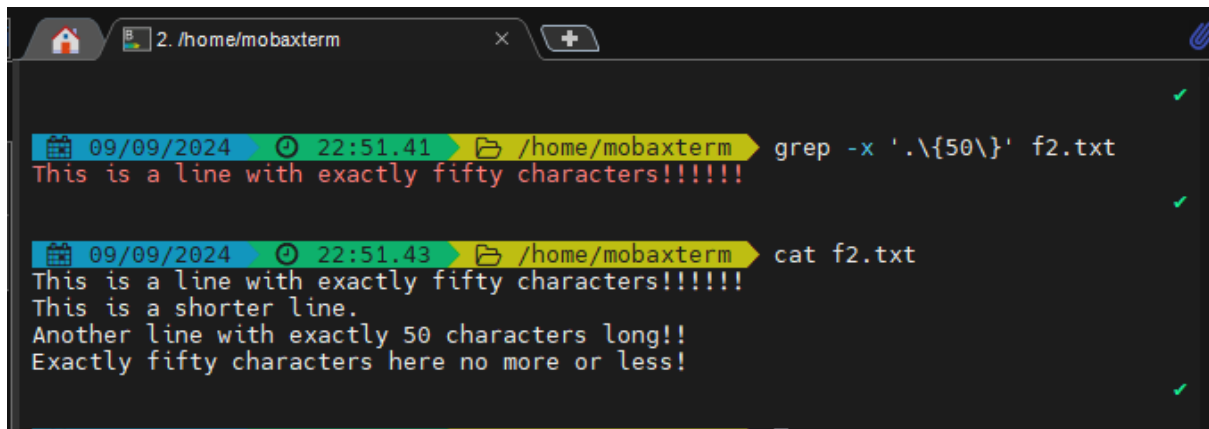
09/09/2024 21:48.31 /home/mobaxterm cat file.txt
SDJIC is renowned for its exceptional academic programs and vibrant campus life.
Students at SDJIC enjoy a wide range of extracurricular activities, making their college experience both educational and enjoyable.
The faculty at SDJIC is highly experienced, providing students with the knowledge and skills needed to succeed in their respective fields.
Furthermore, SDJIC regularly hosts seminars and workshops to ensure that students are well-prepared for their future careers.
With its commitment to excellence, SDJIC continues to be a top choice for students seeking quality education.

09/09/2024 21:48.45 /home/mobaxterm
```

d. Search the files in CPROGRAMS directory which has the string "include"

```
2. /home/mobaxterm
09/09/2024 22:10.02 /home/mobaxterm grep -r 'include' CPROGRAMS/
CPROGRAMS/ex1:This is a line with the word include in it.
CPROGRAMS/ex1:Another line that does not include the keyword.
CPROGRAMS/ex2:Here we include the term in the middle of the line.
```

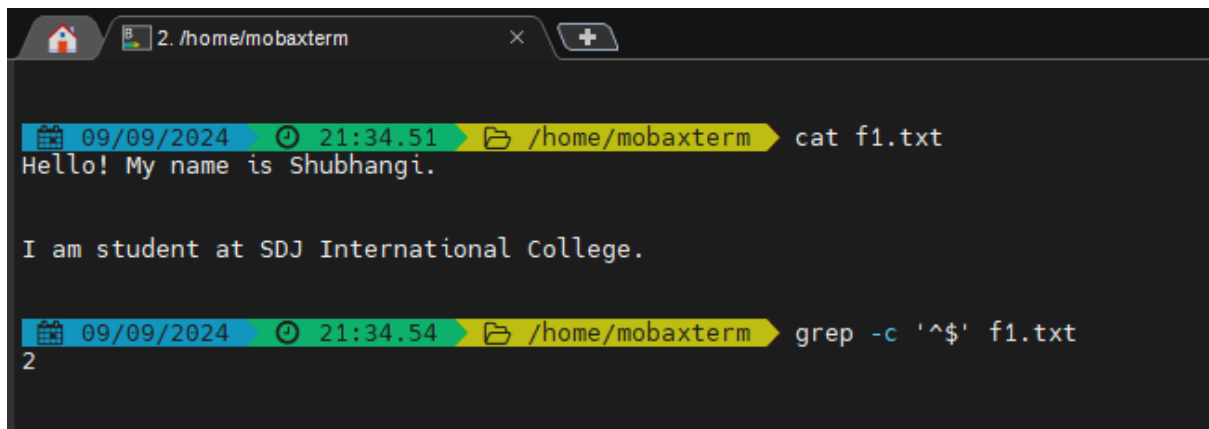
e. print lines having exactly 50 characters in file f1.txt



```
09/09/2024 22:51.41 /home/mobaxterm grep -x '\{50\}' f2.txt
This is a line with exactly fifty characters!!!!!!

09/09/2024 22:51.43 /home/mobaxterm cat f2.txt
This is a line with exactly fifty characters!!!!!!
This is a shorter line.
Another line with exactly 50 characters long!!
Exactly fifty characters here no more or less!
```

f. Count number of blank lines in file f1.txt

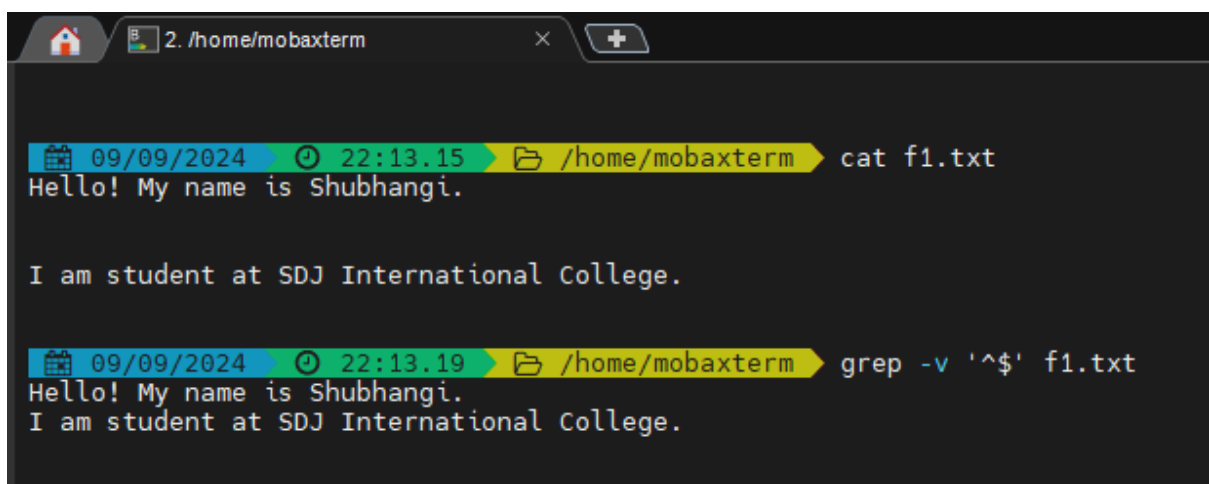


```
09/09/2024 21:34.51 /home/mobaxterm cat f1.txt
Hello! My name is Shubhangi.

I am student at SDJ International College.

09/09/2024 21:34.54 /home/mobaxterm grep -c '^$' f1.txt
2
```

g. Display lines having atleast one characters in file f1.txt

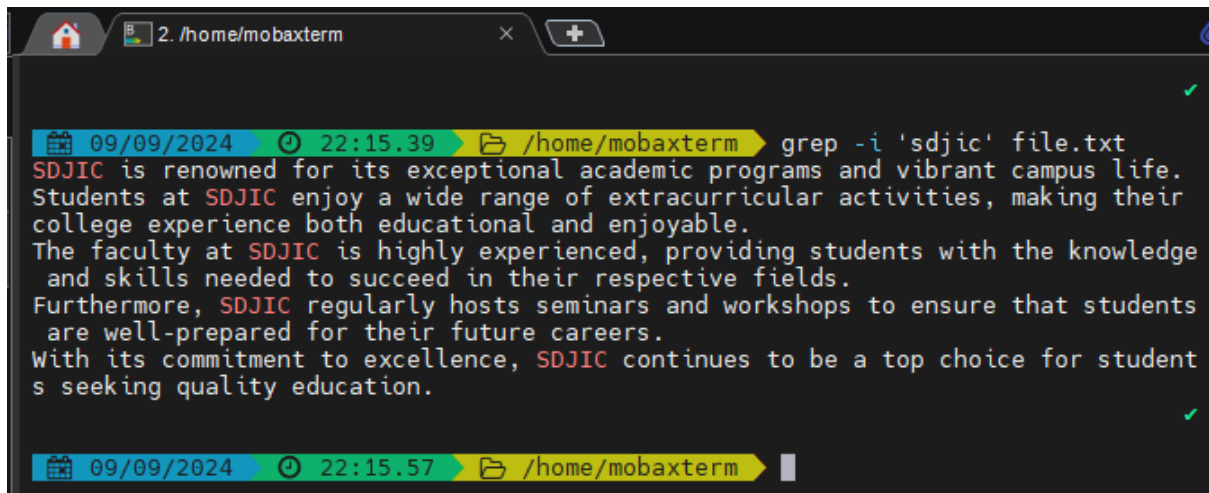


```
09/09/2024 22:13.15 /home/mobaxterm cat f1.txt
Hello! My name is Shubhangi.

I am student at SDJ International College.

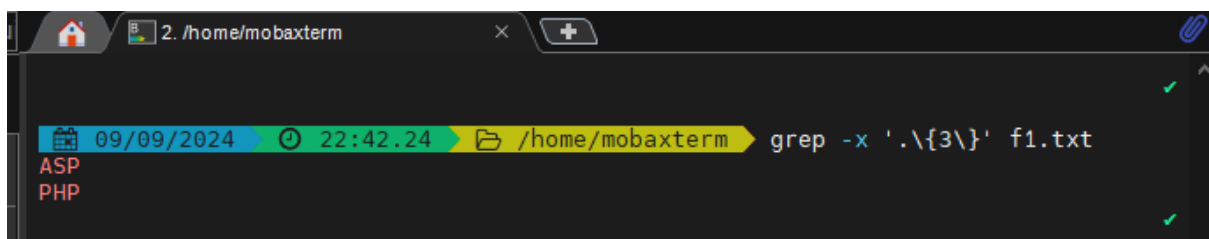
09/09/2024 22:13.19 /home/mobaxterm grep -v '^$' f1.txt
Hello! My name is Shubhangi.
I am student at SDJ International College.
```

#### h. Display lines having sdjic text in any case in file f1.txt



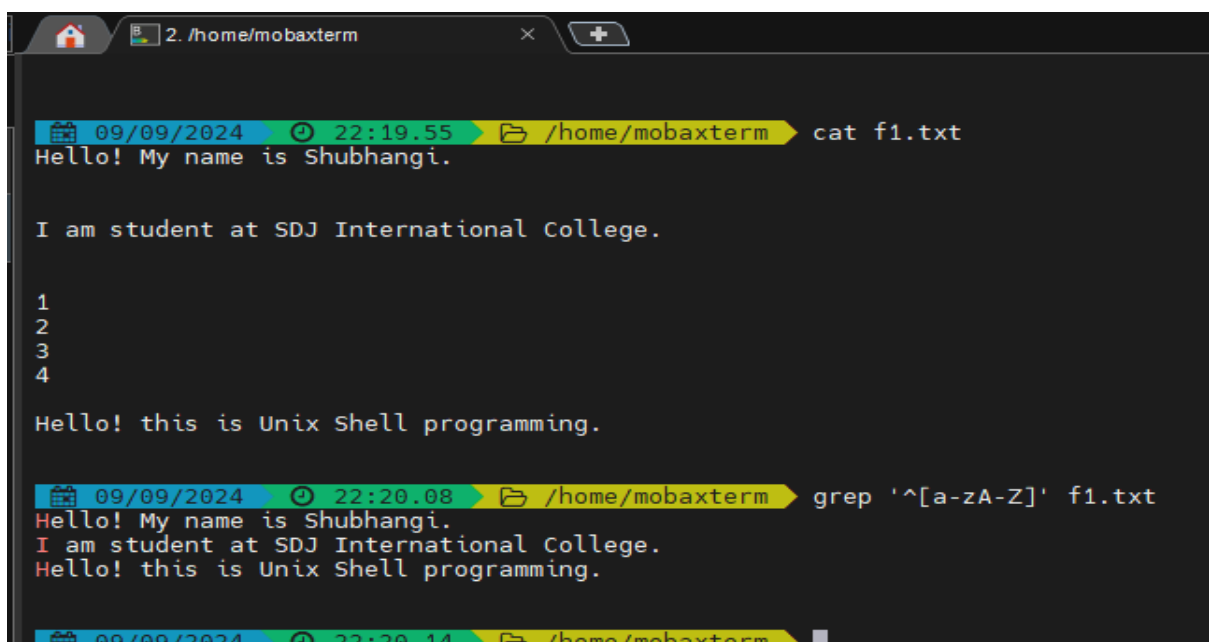
```
09/09/2024 22:15.39 /home/mobaxterm grep -i 'sdjic' file.txt
SDJIC is renowned for its exceptional academic programs and vibrant campus life.
Students at SDJIC enjoy a wide range of extracurricular activities, making their
college experience both educational and enjoyable.
The faculty at SDJIC is highly experienced, providing students with the knowledge
and skills needed to succeed in their respective fields.
Furthermore, SDJIC regularly hosts seminars and workshops to ensure that students
are well-prepared for their future careers.
With its commitment to excellence, SDJIC continues to be a top choice for student
s seeking quality education.
```

#### i. Display line of file f1.txt having exactly 3 characters



```
09/09/2024 22:42.24 /home/mobaxterm grep -x '.\{3\}' f1.txt
ASP
PHP
```

#### j. Display lines of file f1.txt which begin with any alphabet



```
09/09/2024 22:19.55 /home/mobaxterm cat f1.txt
Hello! My name is Shubhangi.

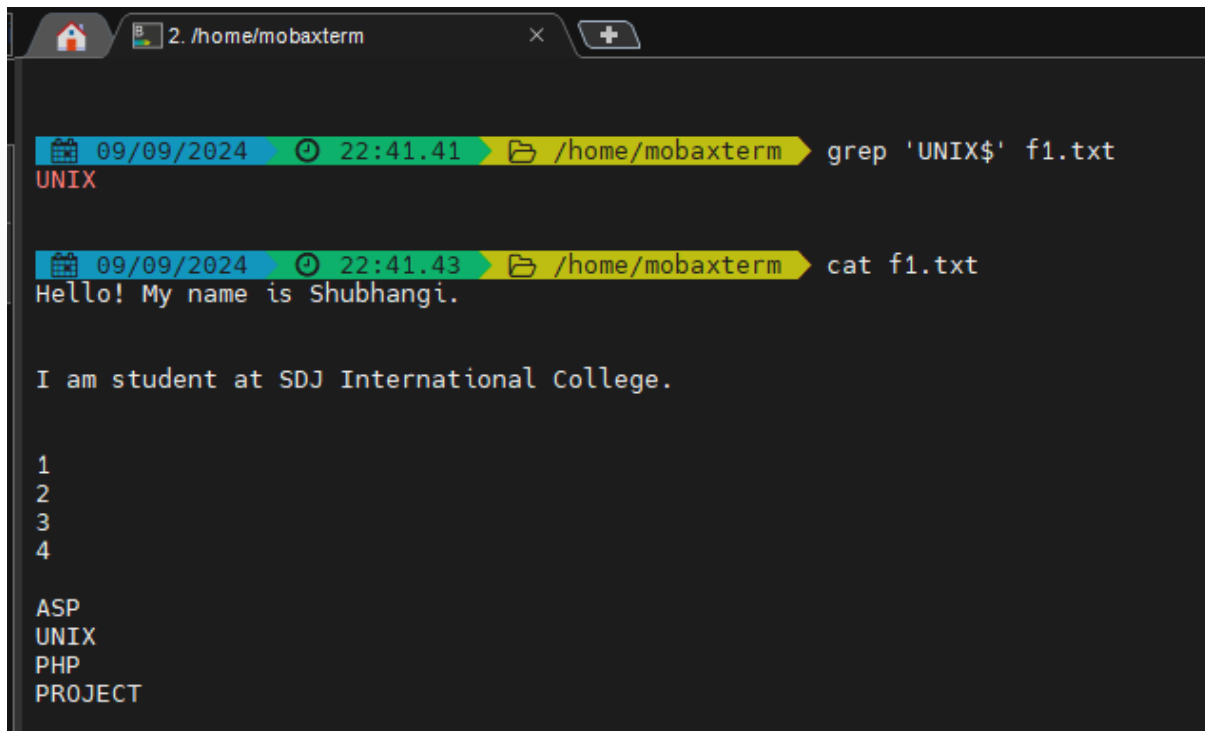
I am student at SDJ International College.

1
2
3
4

Hello! this is Unix Shell programming.

09/09/2024 22:20.08 /home/mobaxterm grep '^[a-zA-Z]' f1.txt
Hello! My name is Shubhangi.
I am student at SDJ International College.
Hello! this is Unix Shell programming.
```

k. Display lines whose last word is “UNIX” in file f1.txt



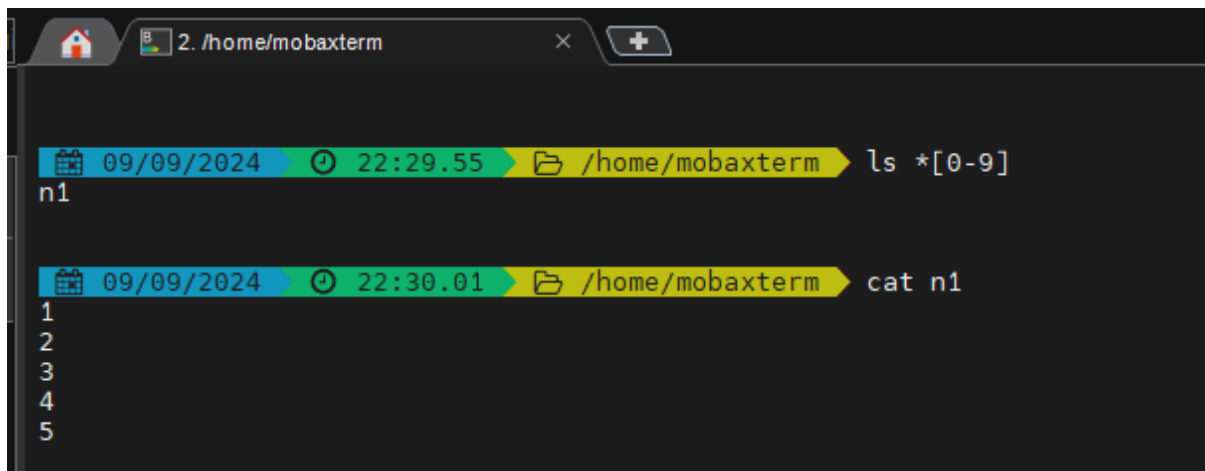
```
09/09/2024 22:41.41 /home/mobaxterm grep 'UNIX$' f1.txt
UNIX

09/09/2024 22:41.43 /home/mobaxterm cat f1.txt
Hello! My name is Shubhangi.

I am student at SDJ International College.

1
2
3
4
ASP
UNIX
PHP
PROJECT
```

l. Display filenames having last character as digit [0-9]



```
09/09/2024 22:29.55 /home/mobaxterm ls *[0-9]
n1

09/09/2024 22:30.01 /home/mobaxterm cat n1
1
2
3
4
5
```

m. Display list of filenames that only consist digits



```
09/09/2024 22:58.35 /home/mobaxterm ls | grep -x '[0-9]*'
123

09/09/2024 22:58.38 /home/mobaxterm ls
123      f1.txt      q1.sh      q15a.sh    q7.sh
CPROGRAMS  f2.txt      q10.sh     q2.sh      q8.sh
Desktop    file.txt     q11.sh     q3.sh      q9.sh
LauncherFolder n1          q12.sh     q4.sh
MyDocuments n2          q13.sh     q5.sh
f1.txt     project     q14.sh     q6.sh
```

n. Display line of file f1.txt which only consist digits

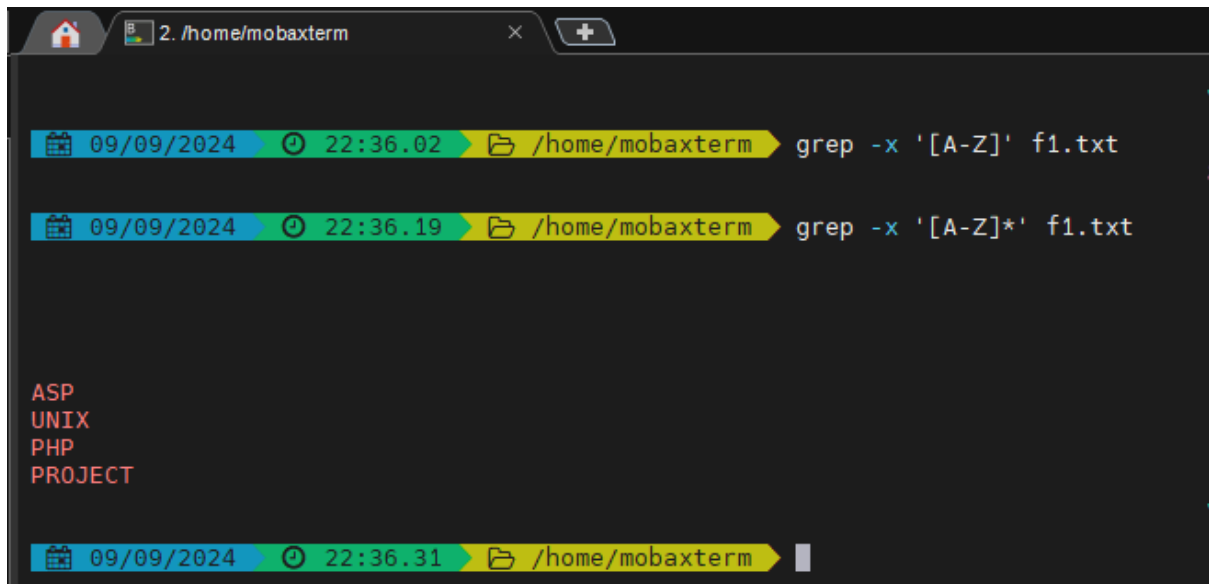
```
09/09/2024 22:32.57 /home/mobaxterm cat f1.txt
Hello! My name is Shubhangi.

I am student at SDJ International College.

1
2
3
4

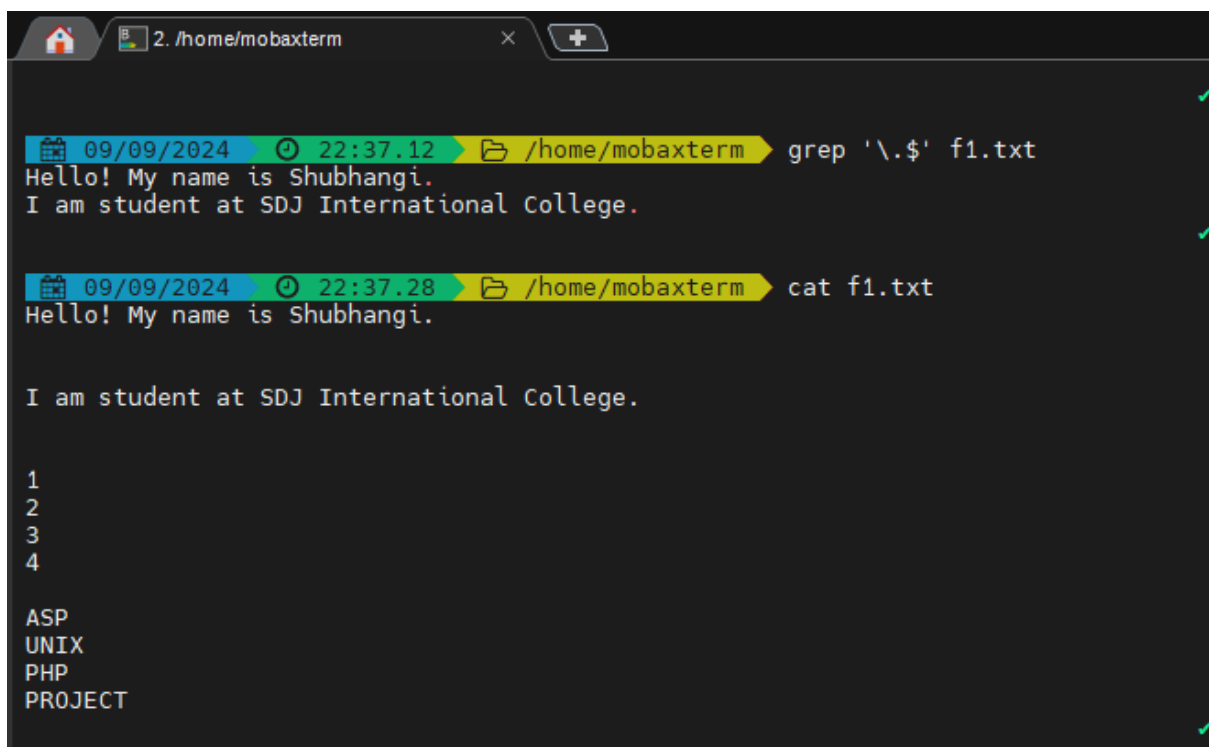
09/09/2024 22:33.01 /home/mobaxterm grep -x '[0-9*]' f1.txt
1
2
3
4
```

o. Display lines of file f1.txt which only consist capital alphabets



```
09/09/2024 22:36.02 /home/mobaxterm grep -x '[A-Z]' f1.txt
09/09/2024 22:36.19 /home/mobaxterm grep -x '[A-Z]*' f1.txt
ASP
UNIX
PHP
PROJECT
09/09/2024 22:36.31 /home/mobaxterm
```

p. Search all lines in file f1.txt which ends with “.”



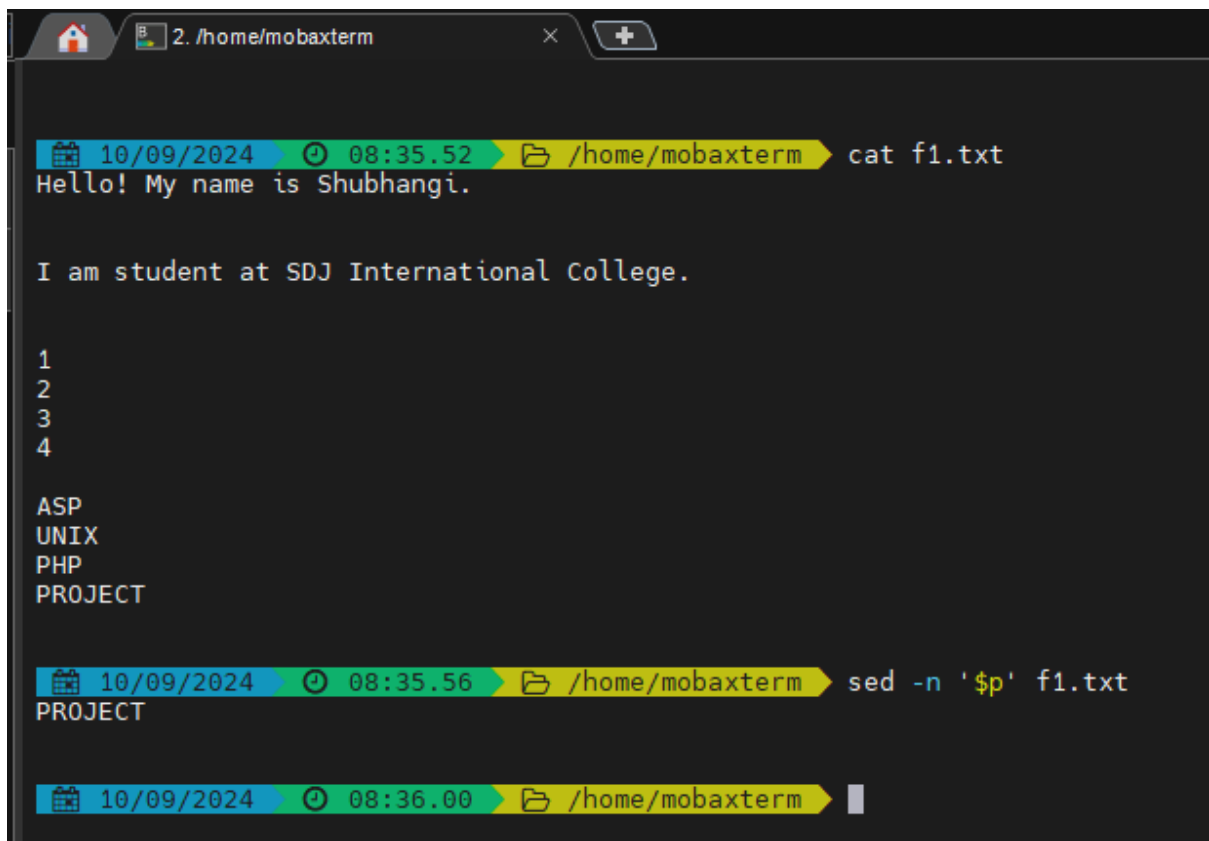
```
09/09/2024 22:37.12 /home/mobaxterm grep '\.$' f1.txt
Hello! My name is Shubhangi.
I am student at SDJ International College.
09/09/2024 22:37.28 /home/mobaxterm cat f1.txt
Hello! My name is Shubhangi.

I am student at SDJ International College.

1
2
3
4
ASP
UNIX
PHP
PROJECT
```

16. Write sed command to perform following tasks

a. To print only last line of f1.txt



A terminal window titled '2. /home/mobaxterm' showing the execution of two commands. The first command, `cat f1.txt`, outputs the text 'Hello! My name is Shubhangi.' followed by 'I am student at SDJ International College.' and a list of programming languages: '1', '2', '3', '4', 'ASP', 'UNIX', 'PHP', and 'PROJECT'. The second command, `sed -n '$p' f1.txt`, outputs 'PROJECT'.

```
10/09/2024 08:35.52 /home/mobaxterm cat f1.txt
Hello! My name is Shubhangi.

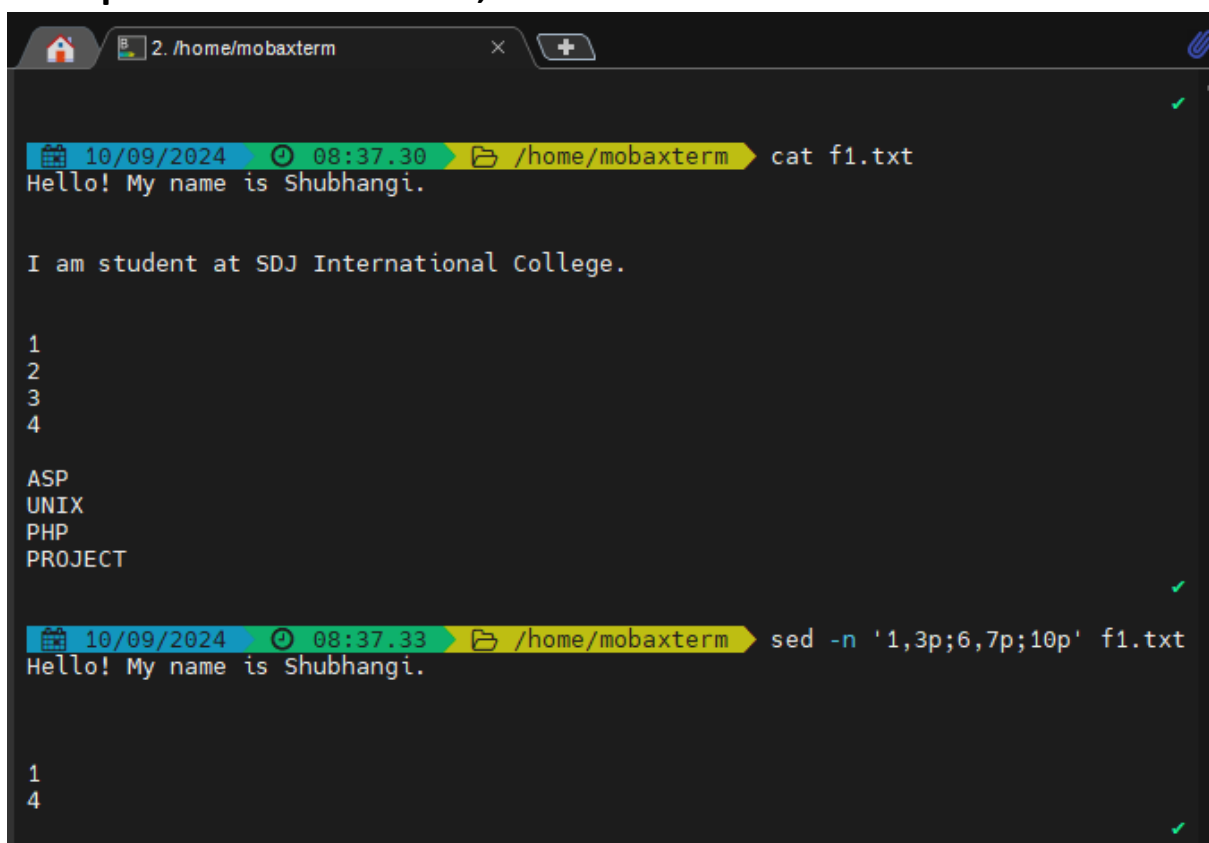
I am student at SDJ International College.

1
2
3
4
ASP
UNIX
PHP
PROJECT

10/09/2024 08:35.56 /home/mobaxterm sed -n '$p' f1.txt
PROJECT

10/09/2024 08:36.00 /home/mobaxterm
```

**b. To print line number 1-3, 6-7 and 10 of f1.txt**



A terminal window titled '2. /home/mobaxterm' showing the execution of two commands. The first command, `cat f1.txt`, outputs the same text as the first screenshot. The second command, `sed -n '1,3p;6,7p;10p' f1.txt`, outputs '1' and '4', which correspond to lines 1 and 4 of the original file's content (lines 1-3 and 6-7 of the file).

```
10/09/2024 08:37.30 /home/mobaxterm cat f1.txt
Hello! My name is Shubhangi.

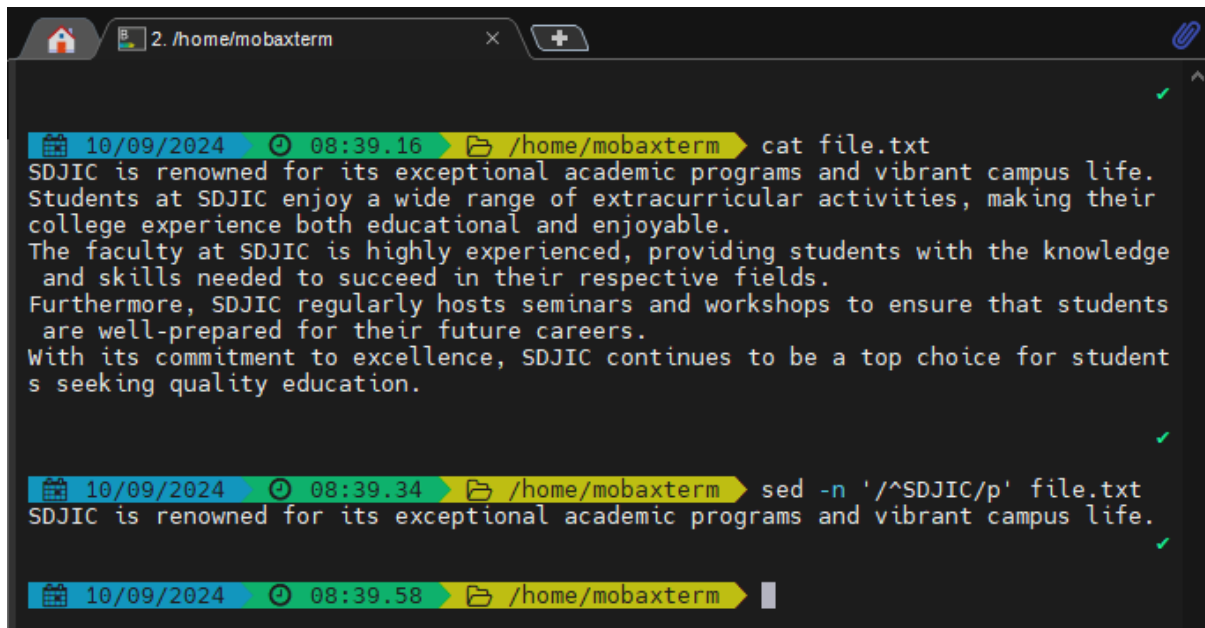
I am student at SDJ International College.

1
2
3
4
ASP
UNIX
PHP
PROJECT

10/09/2024 08:37.33 /home/mobaxterm sed -n '1,3p;6,7p;10p' f1.txt
Hello! My name is Shubhangi.

1
4
```

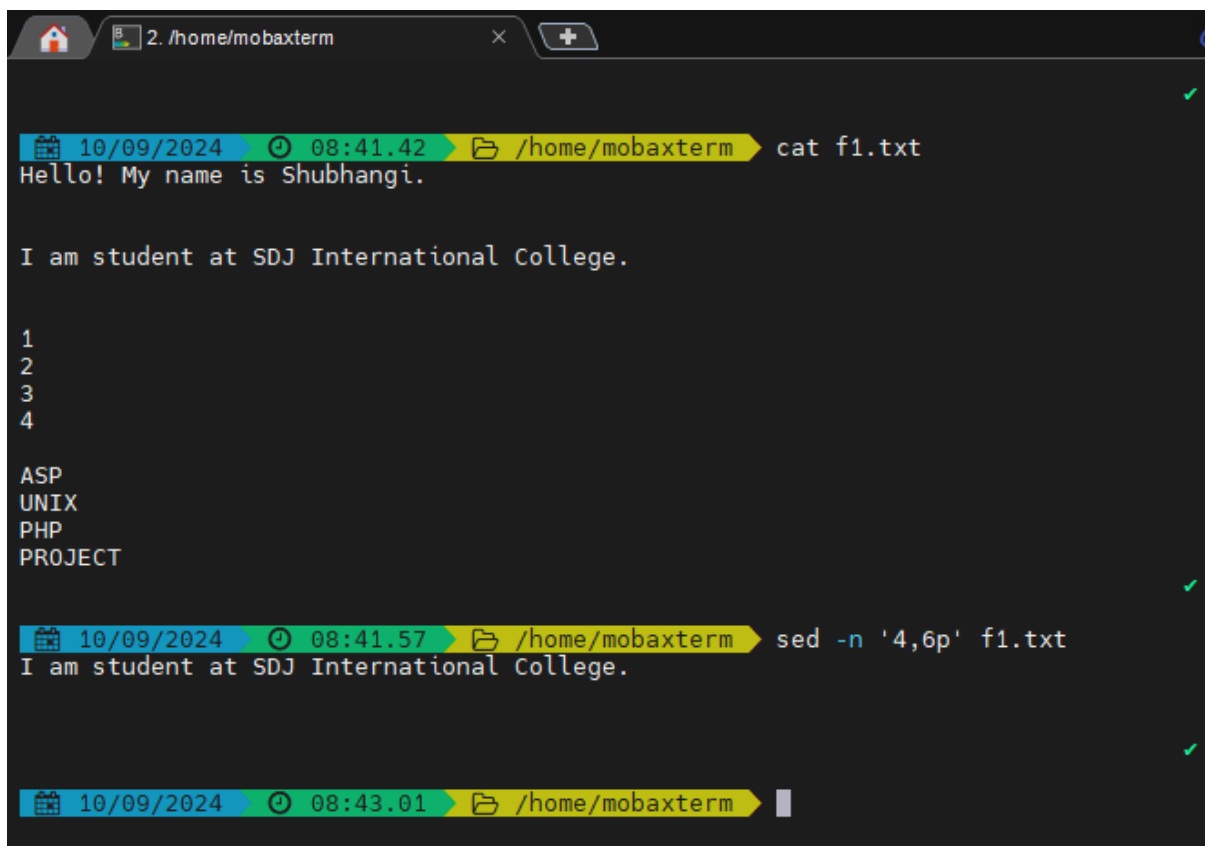
**c. To print lines beginning with SDJIC of f1.txt**



```
10/09/2024 08:39.16 /home/mobaxterm cat file.txt
SDJIC is renowned for its exceptional academic programs and vibrant campus life.
Students at SDJIC enjoy a wide range of extracurricular activities, making their
college experience both educational and enjoyable.
The faculty at SDJIC is highly experienced, providing students with the knowledge
and skills needed to succeed in their respective fields.
Furthermore, SDJIC regularly hosts seminars and workshops to ensure that students
are well-prepared for their future careers.
With its commitment to excellence, SDJIC continues to be a top choice for student
s seeking quality education.

10/09/2024 08:39.34 /home/mobaxterm sed -n '/^SDJIC/p' file.txt
SDJIC is renowned for its exceptional academic programs and vibrant campus life.
```

**d. Print three lines starting from fourth line of f1.txt**



```
10/09/2024 08:41.42 /home/mobaxterm cat f1.txt
Hello! My name is Shubhangi.

I am student at SDJ International College.

1
2
3
4

ASP
UNIX
PHP
PROJECT

10/09/2024 08:41.57 /home/mobaxterm sed -n '4,6p' f1.txt
I am student at SDJ International College.
```

**e. Print all blank lines of file f1.txt**

```
10/09/2024 08:44.09 /home/mobaxterm cat f1.txt
Hello! My name is Shubhangi.

I am student at SDJ International College.

1
2
3
4

ASP
UNIX
PHP
PROJECT

10/09/2024 08:44.19 /home/mobaxterm sed -n '/^$/p' f1.txt

10/09/2024 08:44.39 /home/mobaxterm
```

**f. Print lines having either of “sdjic” or “sdjyc”**

**g. Lines beginning with either alphabet or digit**

```
10/09/2024 08:54.09 /home/mobaxterm cat f1.txt
Hello! My name is Shubhangi.

I am student at SDJ International College.

1
2
3
4

ASP
UNIX
PHP
PROJECT

() {*&^%}{+^%$#)

10/09/2024 08:54.14 /home/mobaxterm sed -n '/^[a-zA-Z0-9]/p' f1.t
xt
Hello! My name is Shubhangi.
I am student at SDJ International College.
1
2
3
4
ASP
UNIX
PHP
PROJECT

10/09/2024 08:54.24 /home/mobaxterm
```

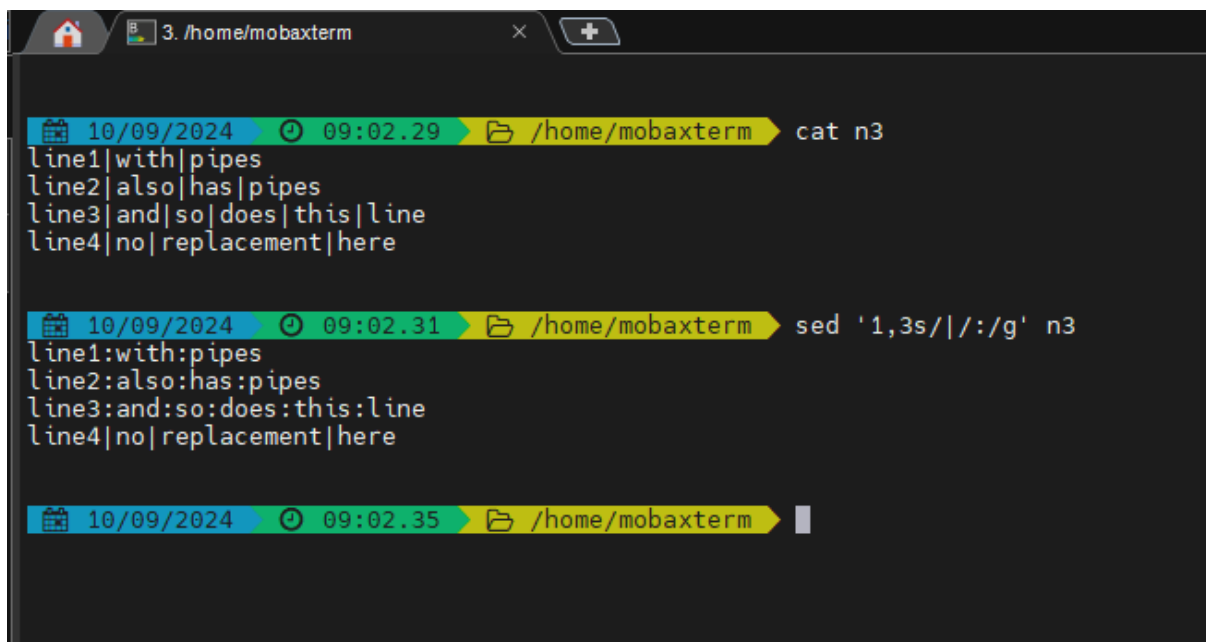
h. To insert a line “additional line” before every line

```
10/09/2024 08:57.58 /home/mobaxterm cat n1
UNIX
PHP
ASP.NET
PROJECT

10/09/2024 08:58.02 /home/mobaxterm sed 's/^/additional line\n/'
n1
additional line
UNIX
additional line
PHP
additional line
ASP.NET
additional line
PROJECT

10/09/2024 08:58.57 /home/mobaxterm
```

i. To replace every occurrence of | with : of first three lines

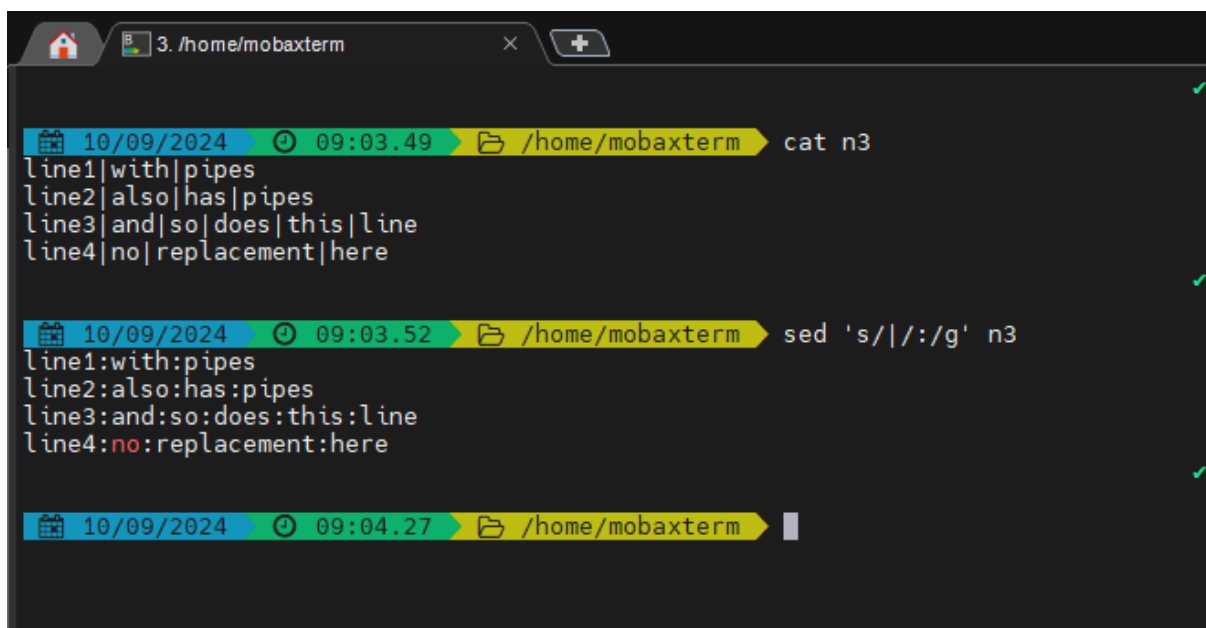


```
10/09/2024 09:02.29 /home/mobaxterm cat n3
line1|with|pipes
line2|also|has|pipes
line3|and|so|does|this|line
line4|no|replacement|here

10/09/2024 09:02.31 /home/mobaxterm sed '1,3s/|/:/g' n3
line1:with:pipes
line2:also:has:pipes
line3:and:so:does:this:line
line4|no|replacement|here

10/09/2024 09:02.35 /home/mobaxterm
```

j. To replace every occurrence of “|” with “:” of every line



```
10/09/2024 09:03.49 /home/mobaxterm cat n3
line1|with|pipes
line2|also|has|pipes
line3|and|so|does|this|line
line4|no|replacement|here

10/09/2024 09:03.52 /home/mobaxterm sed 's/|/:/g' n3
line1:with:pipes
line2:also:has:pipes
line3:and:so:does:this:line
line4:no:replacement:here

10/09/2024 09:04.27 /home/mobaxterm
```

k. To remove all the lines having word “fail” from file f1.txt (delete command)

