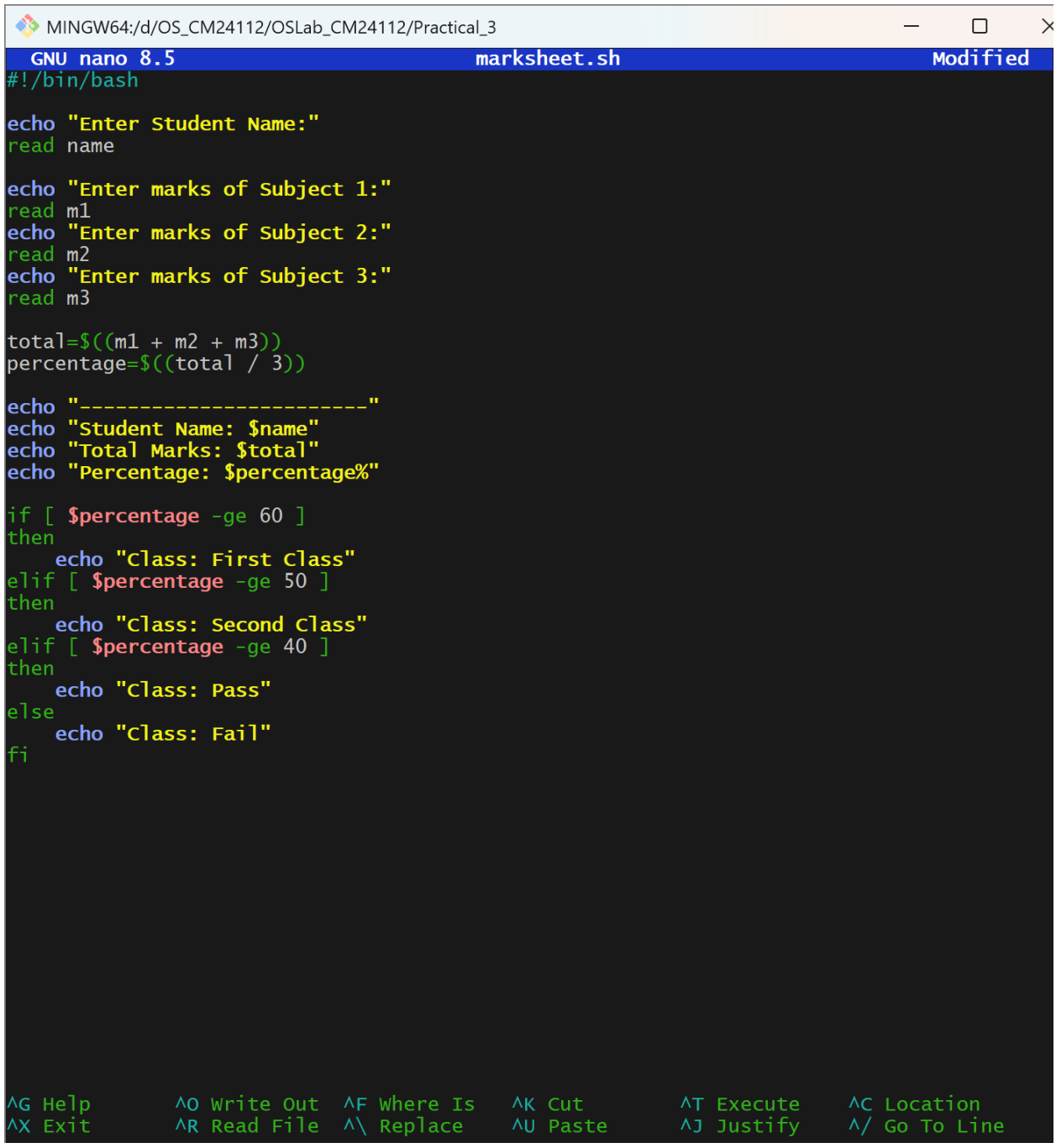
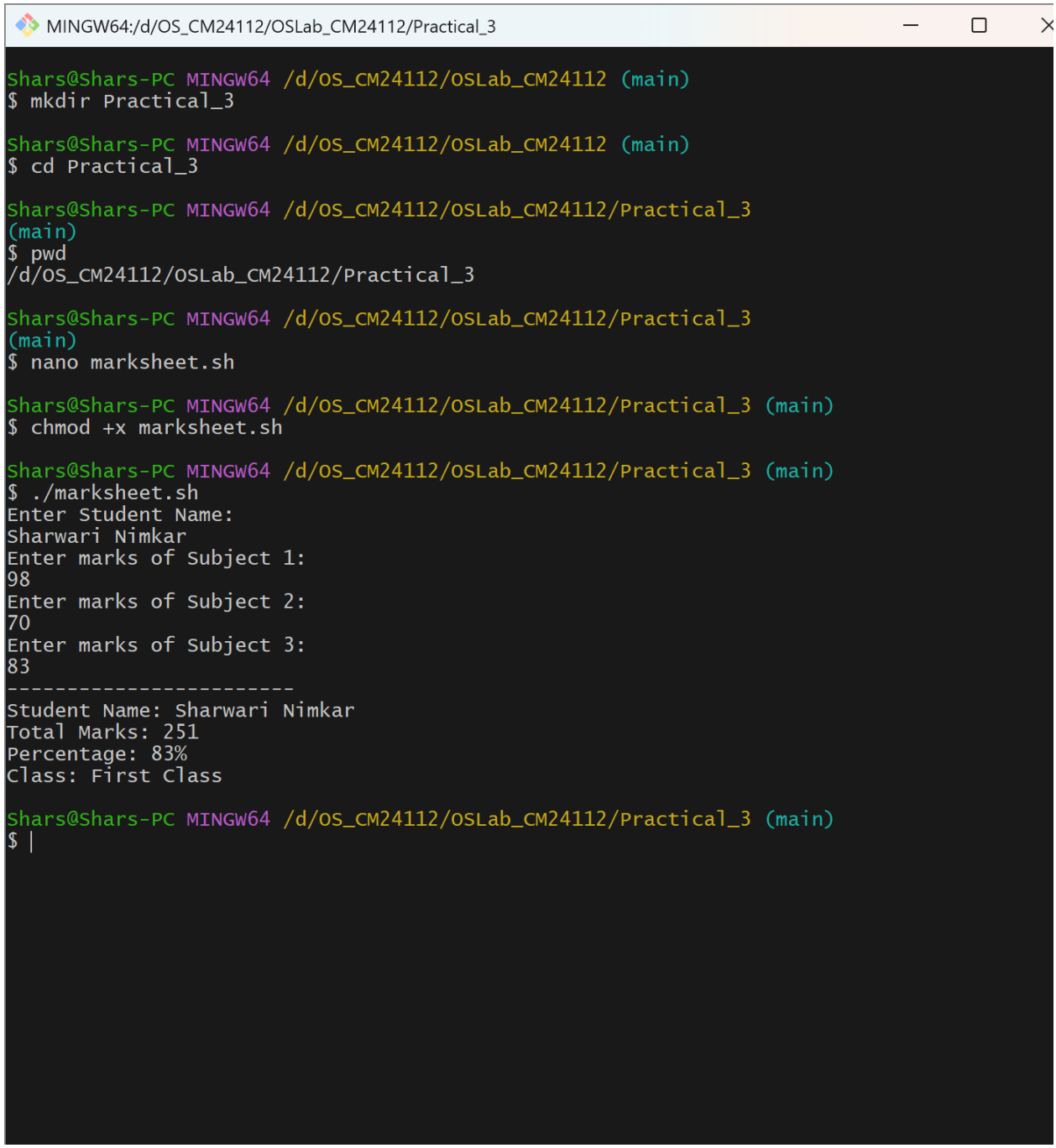
PRACTICAL-3

1. Write a shell script to generate mark- sheet of a student. Take 3 subjects, calculate and display total marks, percentage and class obtained by the student.

Code:

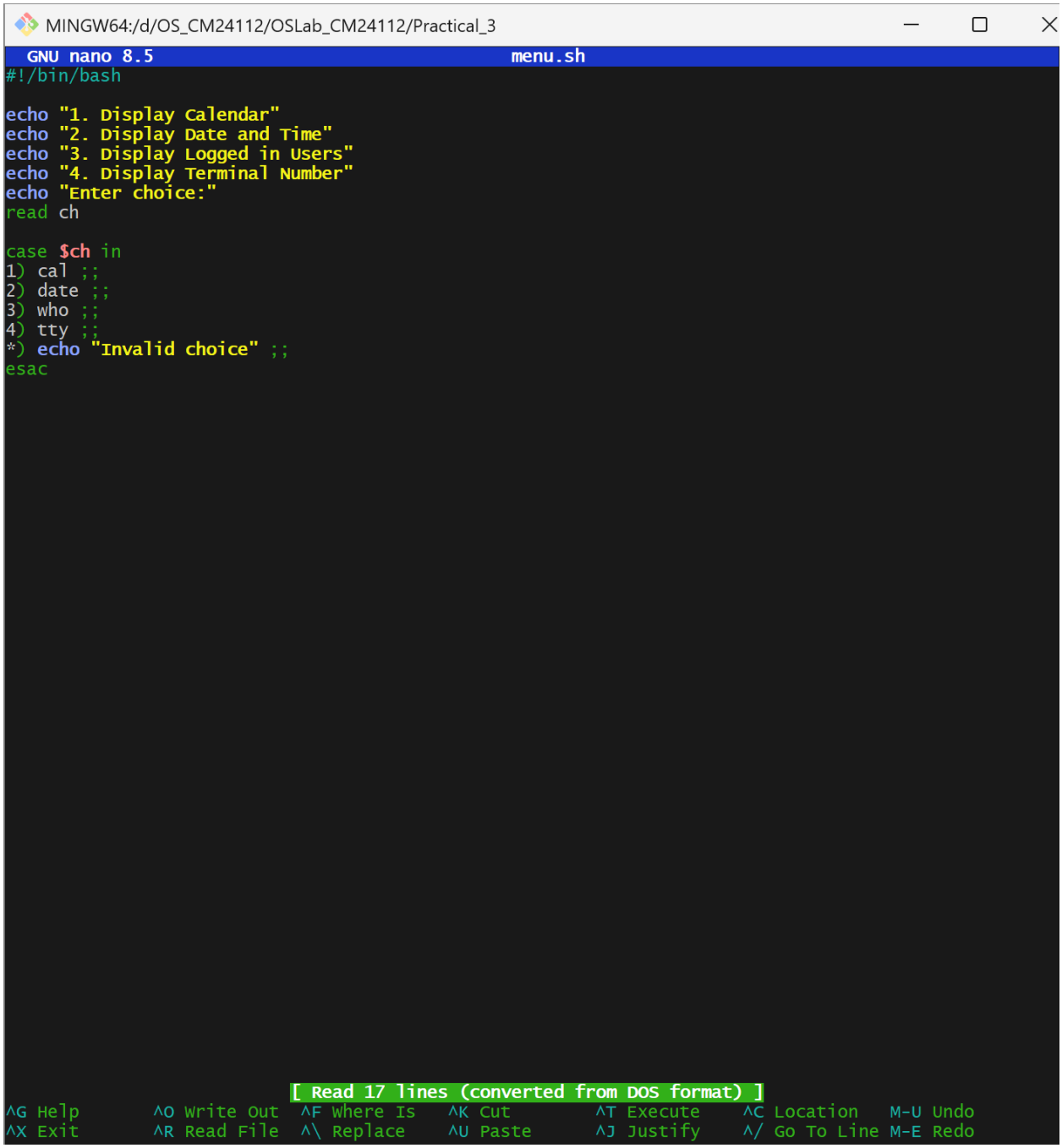


Output:


MINGW64:/d/OS_CM24112/OSLab_CM24112/Practical_3
Shars@Shars-PC MINGW64 /d/OS_CM24112/OSLab_CM24112 (main)
$ mkdir Practical_3
Shars@Shars-PC MINGW64 /d/OS_CM24112/OSLab_CM24112 (main)
$ cd Practical_3
Shars@Shars-PC MINGW64 /d/OS_CM24112/OSLab_CM24112/Practical_3
(main)
$ pwd
/d/OS_CM24112/OSLab_CM24112/Practical_3
Shars@Shars-PC MINGW64 /d/OS_CM24112/OSLab_CM24112/Practical_3
(main)
$ nano marksheet.sh
Shars@Shars-PC MINGW64 /d/OS_CM24112/OSLab_CM24112/Practical_3 (main)
$ chmod +x marksheet.sh
Shars@Shars-PC MINGW64 /d/OS_CM24112/OSLab_CM24112/Practical_3 (main)
$ ./marksheet.sh
Enter Student Name:
Sharwari Nimkar
Enter marks of Subject 1:
98
Enter marks of Subject 2:
70
Enter marks of Subject 3:
83
Student Name: Sharwari Nimkar
Total Marks: 251
Percentage: 83%
Class: First Class
Shars@Shars-PC MINGW64 /d/OS_CM24112/OSLab_CM24112/Practical_3 (main)
$

Q2.Write a menu driven shell script which will print the following menu and execute the given task. Display calendar of current month, Display today's date and time , Display usernames those are currently logged in the system on Display Your terminal number.

Code:



Output:

```
Shars@Shars-PC MINGW64 /d/OS_CM24112/OSLab_CM24112/Practical_3 (main)
$ nano menu.sh

Shars@Shars-PC MINGW64 /d/OS_CM24112/OSLab_CM24112/Practical_3 (main)
$ chmod +x menu.sh
./menu.sh
1. Display Calendar
2. Display Date and Time
3. Display Logged in Users
4. Display Terminal Number
Enter choice:
2
Tue Jan 20 19:28:24 IST 2026

Shars@Shars-PC MINGW64 /d/OS_CM24112/OSLab_CM24112/Practical_3 (main)
$
```

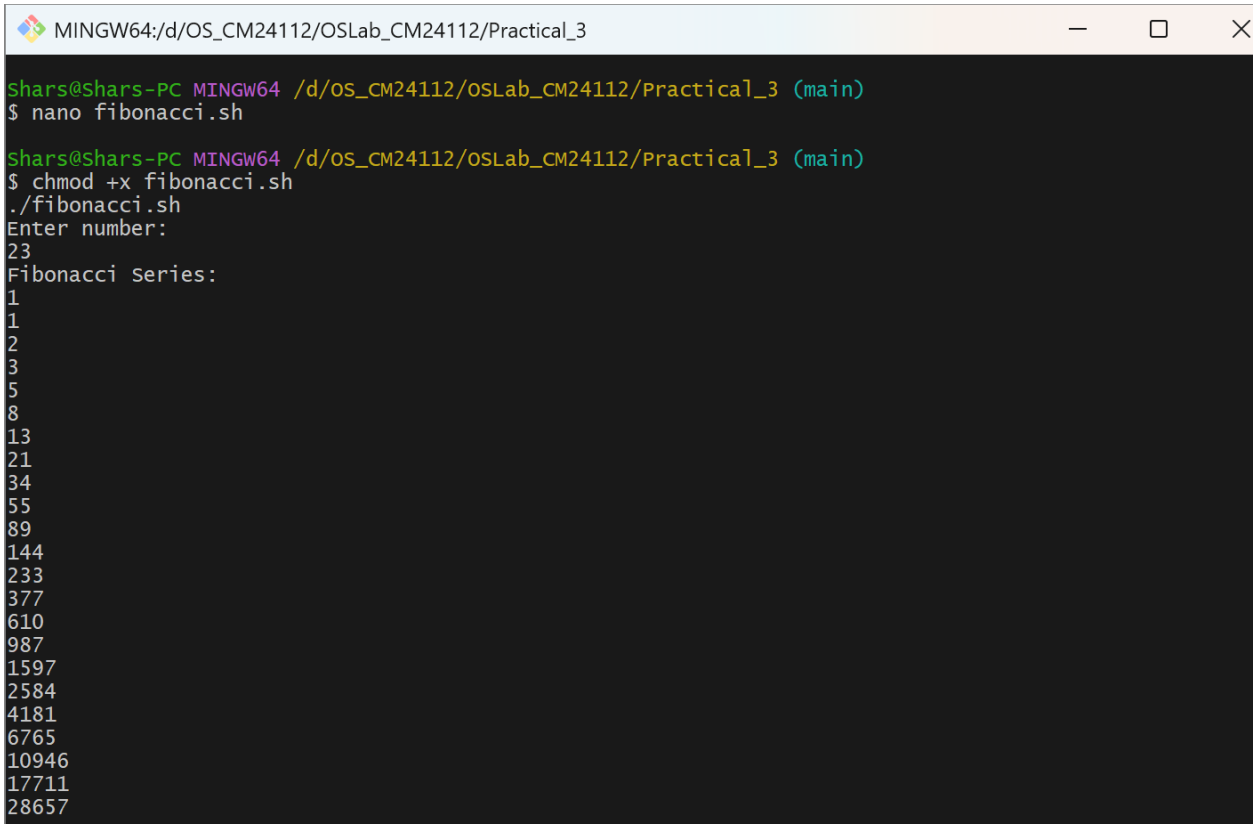
Q.3. Write a shell script which will generate first n Fibonacci numbers like: 1,2, 3, 5, 13

Code:

MINGW64:/d/OS_CM24112/OSLab_CM24112/Practical_3

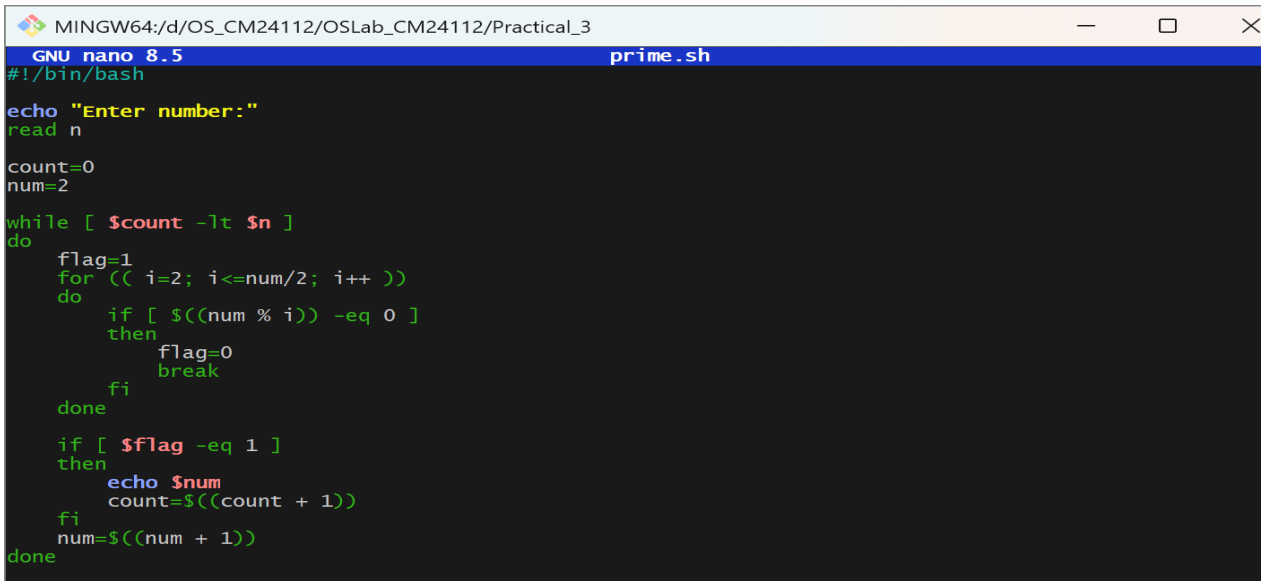
```
  GNU nano 8.5                                  fibonacci.sh
#!/bin/bash

echo "Enter number:"
read n

a=1
b=1

echo "Fibonacci Series:"
echo "$a"
echo "$b"

for (( i=3; i<=n; i++ ))
do
    c=$((a + b))
    echo "$c"
    a=$b
    b=$c
done
```

Output:

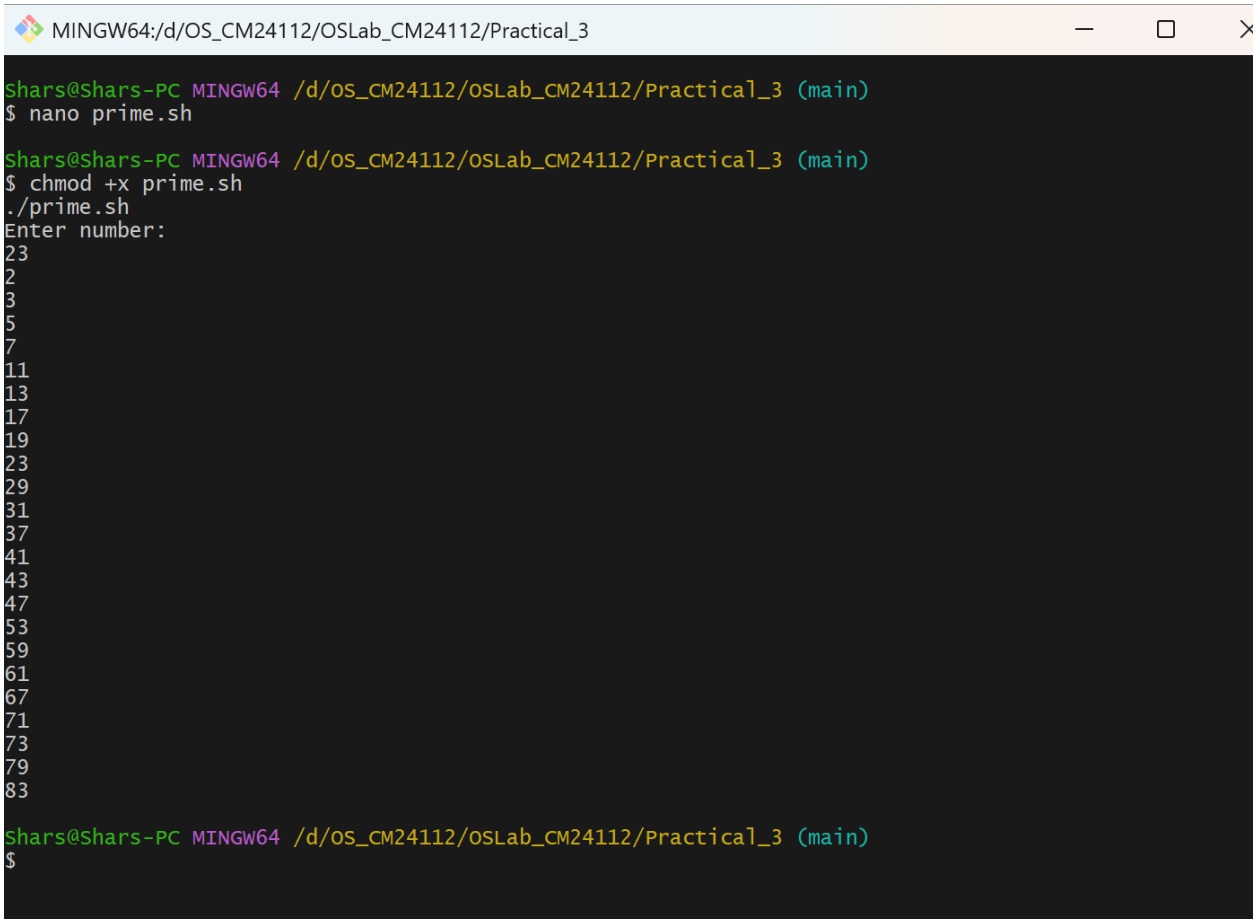


4. Write a shell script which will accept a number b and display first n prime numbers as output

Code:



Output:



5. Write menu driven program for file handling activity

o Creation of file

o Write content in the file

o Upend file content

o Delete file content

Code:

MINGW64:/d/OS_CM24112/OSLab_CM24112/Practical_3

GNU nano 8.5 filemenu.sh

```
#!/bin/bash

echo "1. Create File"
echo "2. Write to File"
echo "3. Append to File"
echo "4. Delete File"
echo "Enter choice:"
read ch

echo "Enter filename:"
read fname

case $ch in
1) touch $fname ;;
2) echo "Enter content:"; read text; echo $text > $fname ;;
3) echo "Enter content:"; read text; echo $text >> $fname ;;
4) rm $fname ;;
*) echo "Invalid choice" ;;
esac
```

```
Shars@Shars-PC MINGW64 /d/OS_CM24112/OSLab_CM24112/Practical_3 (main)
$ nano filemenu.sh

Shars@Shars-PC MINGW64 /d/OS_CM24112/OSLab_CM24112/Practical_3 (main)
$ chmod +x filemenu.sh
./filemenu.sh
1. Create File
2. Write to File
3. Append to File
4. Delete File
Enter choice:
4
Enter filename:
menu.sh

Shars@Shars-PC MINGW64 /d/OS_CM24112/OSLab_CM24112/Practical_3 (main)
$
```