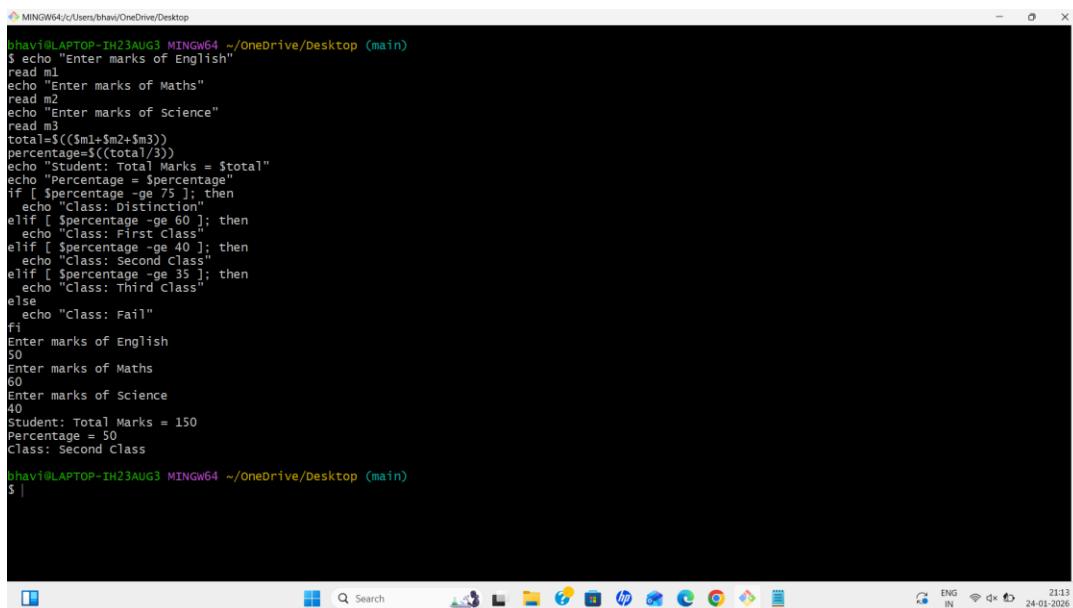


PracticalNo : 2

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.



```
bhavi@LAPTOP-IH23AUG3 MINGW64 ~/OneDrive/Desktop (main)
$ echo "Enter marks of English"
read m1
echo "Enter marks of Maths"
read m2
echo "Enter marks of Science"
read m3
total=$((m1+m2+m3))
percentage=$((total/3))
echo "Student: Total Marks = $total"
echo "Percentage = $percentage"
if [ $percentage -ge 75 ]; then
    echo "Class: Distinction"
elif [ $percentage -ge 60 ]; then
    echo "Class: First Class"
elif [ $percentage -ge 40 ]; then
    echo "Class: Second Class"
elif [ $percentage -ge 35 ]; then
    echo "Class: Third Class"
else
    echo "Class: Fail"
fi
Enter marks of English
50
Enter marks of Maths
60
Enter marks of Science
40
Student: Total Marks = 150
Percentage = 50
Class: Second Class
bhavi@LAPTOP-IH23AUG3 MINGW64 ~/OneDrive/Desktop (main)
$ |
```

2. Write a menu driven shell script which will print the following menu and execute the given task.

- I. Display calendar of current month
- II. Display today's date and time
- III. Display usernames those are currently logged in the system
- IV. Display your terminal number

```
MINGW64:/c/Users/bhavi/OneDrive/Desktop
bhavi@LAPTOP-IH23AUG3 MINGW64 ~/OneDrive/Desktop (main)
$ #!/bin/bash

echo "1. Calendar of current month"
echo "2. Today's date and time"
echo "3. Logged in users"
echo "4. Terminal number"
echo "Enter your choice"
read ch

if [ $ch -eq 1 ]; then
    date +"%B %Y"
elif [ $ch -eq 2 ]; then
    date
elif [ $ch -eq 3 ]; then
    who
elif [ $ch -eq 4 ]; then
    tty
else
    echo "Invalid choice"
fi
1. Calendar of current month
2. Today's date and time
3. Logged in users
4. Terminal number
Enter your choice
1
January 2026

bhavi@LAPTOP-IH23AUG3 MINGW64 ~/OneDrive/Desktop (main)
$ #!/bin/bash

echo "1. Calendar of current month"

```

```
MINGW64:/c/Users/bhavi/OneDrive/Desktop
bhavi@LAPTOP-IH23AUG3 MINGW64 ~/OneDrive/Desktop (main)
$ #!/bin/bash

echo "1. Calendar of current month"
echo "2. Today's date and time"
echo "3. Logged in users"
echo "4. Terminal number"
echo "Enter your choice"
read ch

if [ $ch -eq 1 ]; then
    date +"%B %Y"
elif [ $ch -eq 2 ]; then
    date
elif [ $ch -eq 3 ]; then
    who
elif [ $ch -eq 4 ]; then
    tty
else
    echo "Invalid choice"
fi
1. Calendar of current month
2. Today's date and time
3. Logged in users
4. Terminal number
Enter your choice
2
Sat Jan 24 20:50:14 IST 2026

bhavi@LAPTOP-IH23AUG3 MINGW64 ~/OneDrive/Desktop (main)
$ #!/bin/bash

echo "1. Calendar of current month"

```

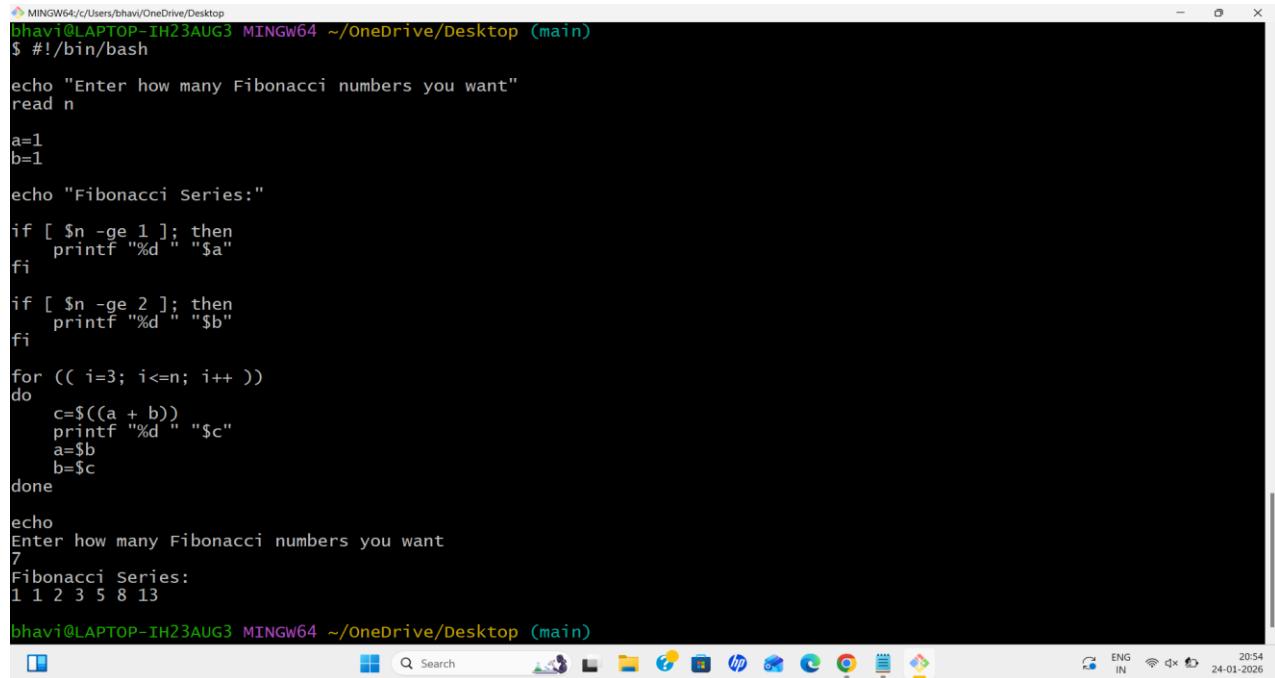
```
MINGW64:/c/Users/bhavi/OneDrive/Desktop
Enter your choice
3
bhavi@LAPTOP-IH23AUG3 MINGW64 ~/OneDrive/Desktop (main)
$ #!/bin/bash

echo "1. Calendar of current month"
echo "2. Today's date and time"
echo "3. Logged in users"
echo "4. Terminal number"
echo "Enter your choice"
read ch

if [ $ch -eq 1 ]; then
    date +"%B %Y"
elif [ $ch -eq 2 ]; then
    date
elif [ $ch -eq 3 ]; then
    who
elif [ $ch -eq 4 ]; then
    tty
else
    echo "Invalid choice"
fi
1. Calendar of current month
2. Today's date and time
3. Logged in users
4. Terminal number
Enter your choice
4
/dev/pty0

bhavi@LAPTOP-IH23AUG3 MINGW64 ~/OneDrive/Desktop (main)
$
```

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



```
MINGW64/c/Users/bhavi/OneDrive/Desktop
bhavi@LAPTOP-IH23AUG3 MINGW64 ~/OneDrive/Desktop (main)
$ #!/bin/bash

echo "Enter how many Fibonacci numbers you want"
read n

a=1
b=1

echo "Fibonacci Series:"

if [ $n -ge 1 ]; then
    printf "%d " "$a"
fi

if [ $n -ge 2 ]; then
    printf "%d " "$b"
fi

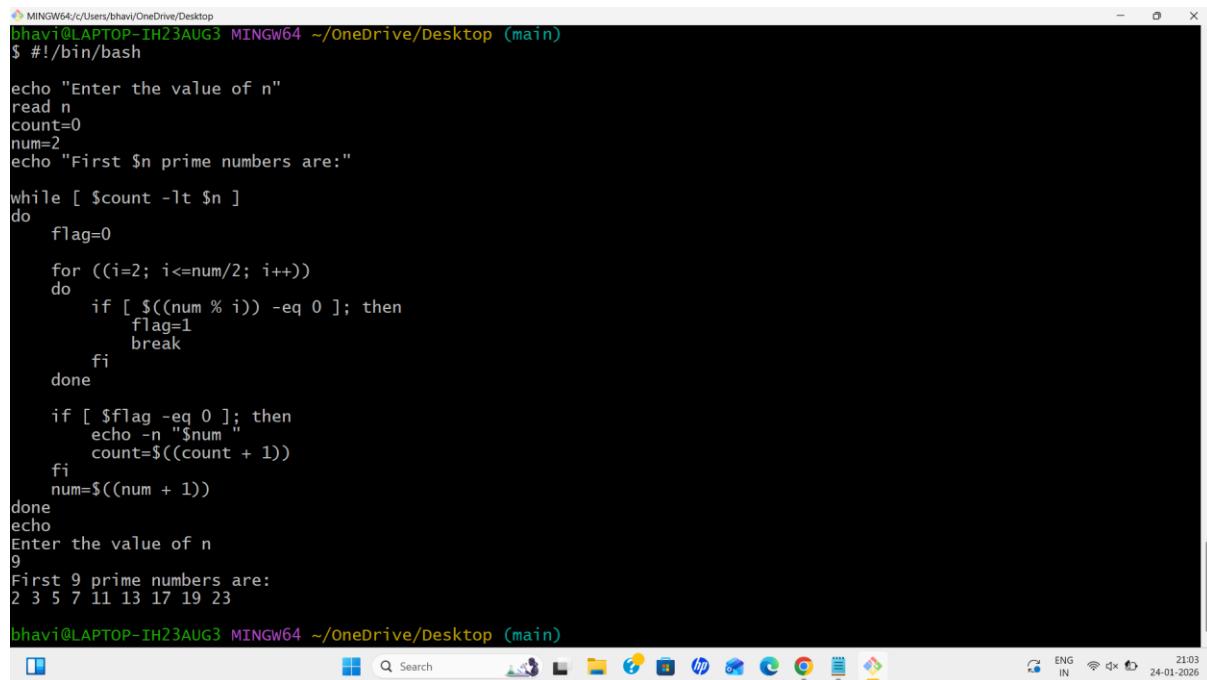
for (( i=3; i<=n; i++ ))
do
    c=$((a + b))
    printf "%d " "$c"
    a=$b
    b=$c
done

echo
```

Enter how many Fibonacci numbers you want
7
Fibonacci Series:
1 1 2 3 5 8 13

```
bhavi@LAPTOP-IH23AUG3 MINGW64 ~/OneDrive/Desktop (main)
```

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



```
MINGW64/c/Users/bhavi/OneDrive/Desktop
bhavi@LAPTOP-IH23AUG3 MINGW64 ~/OneDrive/Desktop (main)
$ #!/bin/bash

echo "Enter the value of n"
read n
count=0
num=2
echo "First $n prime numbers are:"

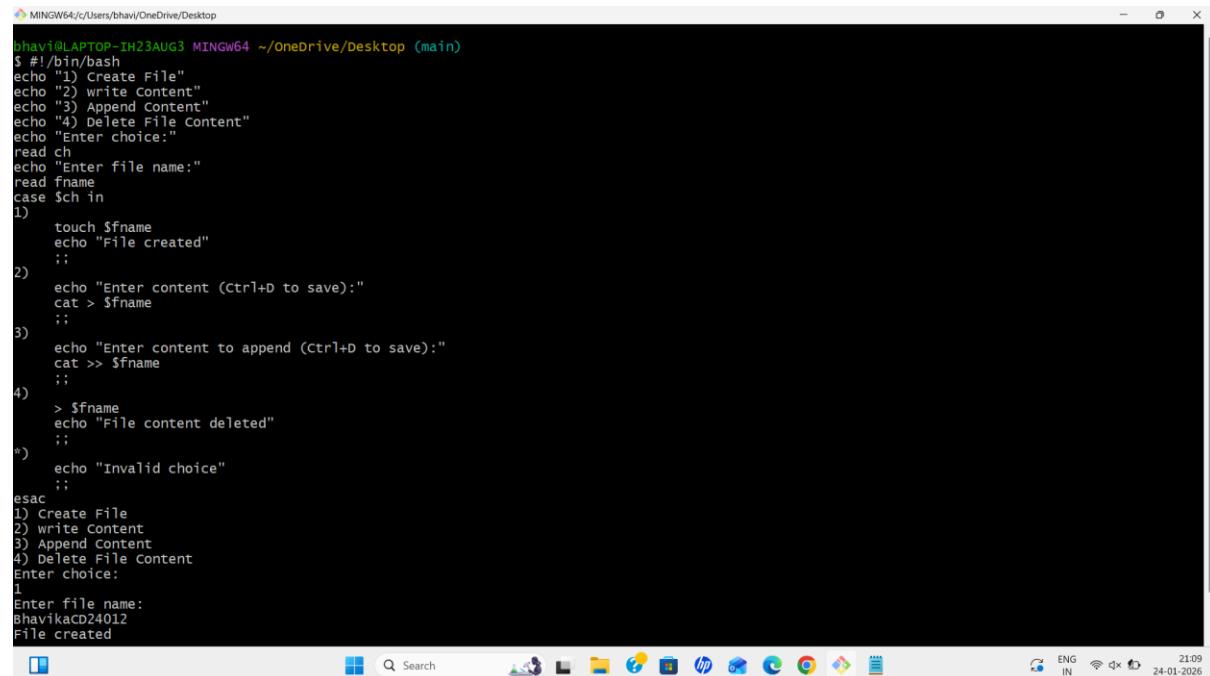
while [ $count -lt $n ]
do
    flag=0
    for ((i=2; i<=num/2; i++))
    do
        if [ $((num % i)) -eq 0 ]; then
            flag=1
            break
        fi
    done
    if [ $flag -eq 0 ]; then
        echo -n "$num "
        count=$((count + 1))
    fi
    num=$((num + 1))
done
echo
```

Enter the value of n
9
First 9 prime numbers are:
2 3 5 7 11 13 17 19 23

```
bhavi@LAPTOP-IH23AUG3 MINGW64 ~/OneDrive/Desktop (main)
```

5. Write menu driven program for file handling activity

- I. Creation of file
- II. Write content in the file
- III. Upend file content
- IV. Delete file content



The screenshot shows a terminal window on a Windows desktop. The terminal is running a bash script to handle files. The script provides four options: Create File, Write Content, Append Content, and Delete File Content. It prompts the user for a choice and a file name, then performs the corresponding operation. The terminal window has a black background with white text. The desktop taskbar at the bottom shows various icons for applications like File Explorer, Edge, and Control Panel.

```
MINGW64:/c/Users/bhavi/OneDrive/Desktop (main)
bhavi@LAPTOP-IH23AUG3 MINGW64 ~/OneDrive/Desktop (main)
$#!/bin/bash
echo "1) Create File"
echo "2) write Content"
echo "3) Append Content"
echo "4) Delete File Content"
echo "Enter choice:"
read ch
echo "Enter file name:"
read fname
case $ch in
1)
    touch $fname
    echo "File created"
    ;;
2)
    echo "Enter content (Ctrl+D to save):"
    cat > $fname
    ;;
3)
    echo "Enter content to append (Ctrl+D to save):"
    cat >> $fname
    ;;
4)
    > $fname
    echo "File content deleted"
    ;;
*)
    echo "Invalid choice"
    ;;
esac
1) Create File
2) write Content
3) Append Content
4) Delete File Content
Enter choice:
1
Enter file name:
Bhavikacd24012
File created
```