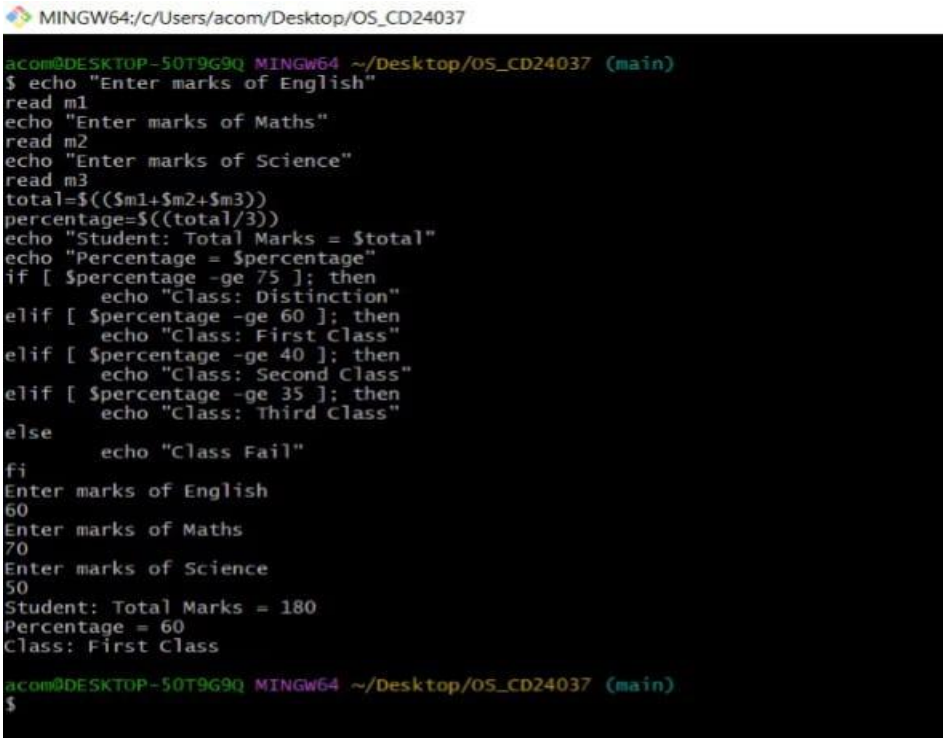
1. **Write a shell script to generate mark – sheet of a student.Take 3 subjects,calculate and display total marks, percentage and Class obtained by the student**.



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/acom/Desktop/OS_CD24037

```
acom@DESKTOP-5OT9G9Q MINGW64 ~/Desktop/OS_CD24037 (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

acom@DESKTOP-5OT9G9Q MINGW64 ~/Desktop/OS_CD24037 (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 18:55:50 IST 2026

acom@DESKTOP-5OT9G9Q MINGW64 ~/Desktop/OS_CD24037 (main)
$
```

3. **Write a shell script which will generate first n fibonnacci numbers like: 1, 1.2,3,5,13**

MINGW64:/c/Users/acom/Desktop/OS_CD24037

```
acom@DESKTOP-5OT9G9Q MINGW64 ~/Desktop/OS_CD24037 (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
5
Fibonacci Series:
1 1 2 3 5

acom@DESKTOP-5OT9G9Q MINGW64 ~/Desktop/OS_CD24037 (main)
$
```

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

MINGW64:/c/Users/acom/Desktop/OS_CD24037

```
acom@DESKTOP-5OT9G9Q MINGW64 ~/Desktop/OS_CD24037 (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
3
First 3 prime numbers are:
2 3 5

acom@DESKTOP-5OT9G9Q MINGW64 ~/Desktop/OS_CD24037 (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**

MINGW64:/c/Users/acom/Desktop/OS_CD24037

```
acom@DESKTOP-50T9G9Q MINGW64 ~/Desktop/OS_CD24037 (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:
pract2
File created
```

MINGW64:/c/Users/acom/Desktop/OS_CD24037

```
    ;;
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:
pract2
File created

acom@DESKTOP-5OT9G9Q MINGW64 ~/Desktop/OS_CD24037 (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:
2
Enter file name:
pract2
Enter content (Ctrl+D to save):
Hey, have a nice day!!

acom@DESKTOP-5OT9G9Q MINGW64 ~/Desktop/OS_CD24037 (main)
$
```