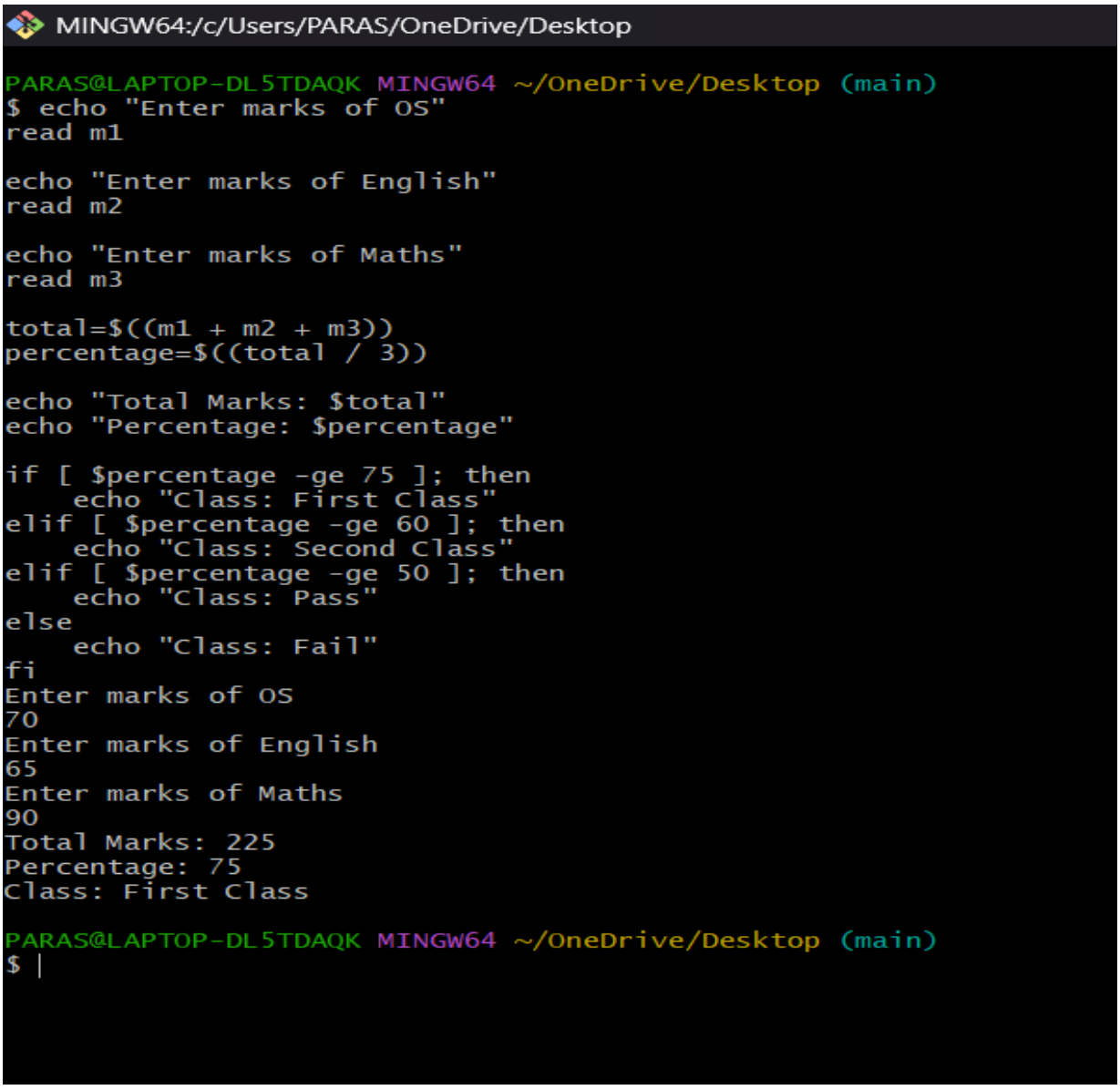
PRACTICAL 2

[Shell Scripting]

Q1. 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.



Q2. Write a menu driven shell script which will print the following menu and execute the given task.

1. Display calendar of current month
2. Display today's date and time
3. Display usernames those are currently logged in the system
4. Display your terminal number

MINGW64:/c/Users/PARAS/OneDrive/Desktop

```
PARAS@LAPTOP-DL5TDAQK MINGW64 ~/OneDrive/Desktop (main)
$ while true
do
    clear

    echo "SYSTEM INFORMATION MENU (Git Bash)"
    echo "1. Display calendar of current month"
    echo "2. Display today's date and time"
    echo "3. Display usernames currently logged in"
    echo "4. Display your terminal number"
    echo "5. Exit"
    echo "====================================="
    echo -n "Enter your choice (1-5): "
    read choice

    case $choice in
    1)
        echo "Calendar of current month:"
        cal
        echo
        read -p "Press Enter to continue..."
        ;;
    2)
        echo "Today's date and time:"
        date
        echo
        read -p "Press Enter to continue..."
        ;;
    3)
        echo "Users currently logged in:"
        who
        echo
        read -p "Press Enter to continue..."
        ;;
    4)
        echo "Your terminal number:"
        tty
        echo
        read -p "Press Enter to continue..."
        ;;
    5)
        echo "Exiting program..."
        exit
        ;;
    *)
        echo "Invalid choice! Please enter 1-5."
        read -p "Press Enter to continue..."
        ;;
    esac
> done
```

MINGW64:/c/Users/PARAS/OneDrive/Desktop

```
SYSTEM INFORMATION MENU (Git Bash)
1. Display calendar of current month
2. Display today's date and time
3. Display usernames currently logged in
4. Display your terminal number
5. Exit
=====================================
Enter your choice (1-5): 1
Calendar of current month:
bash: cal: command not found

Press Enter to continue...
```

MINGW64:/c/Users/PARAS/OneDrive/Desktop

```
SYSTEM INFORMATION MENU (Git Bash)
1. Display calendar of current month
2. Display today's date and time
3. Display usernames currently logged in
4. Display your terminal number
5. Exit
=====================================
Enter your choice (1-5): 2
Today's date and time:
Sat Jan 24 21:18:07 IST 2026

Press Enter to continue...
```

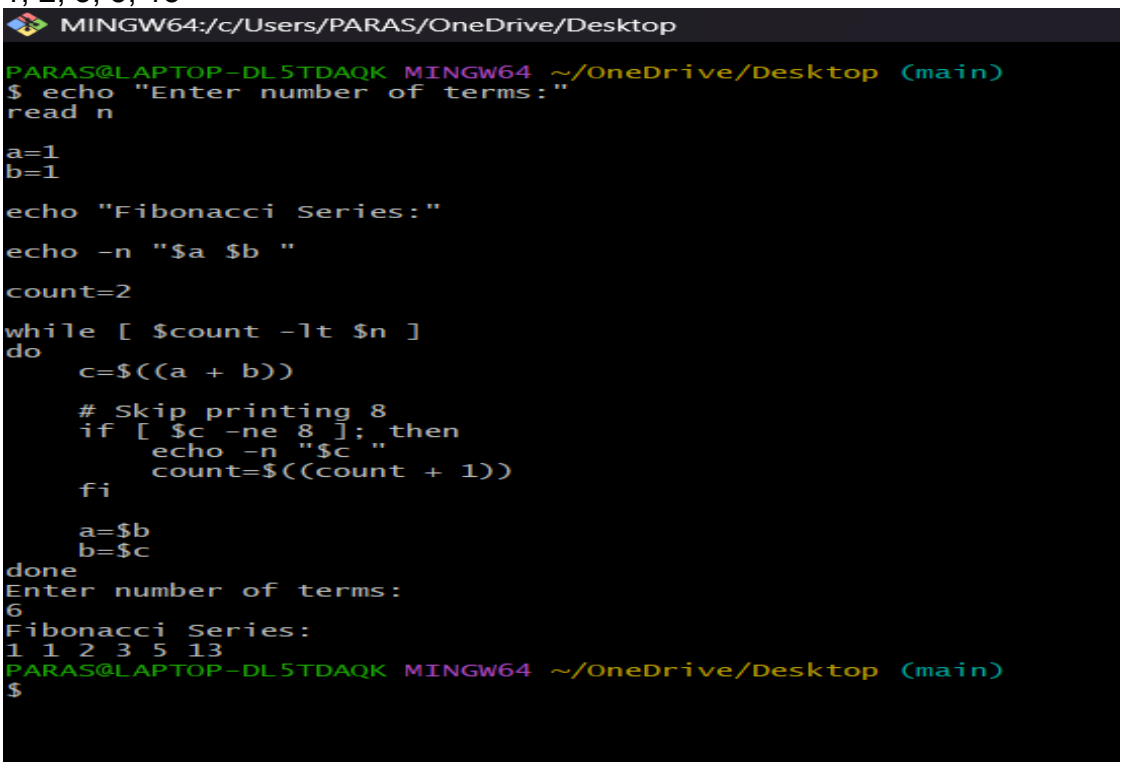
MINGW64:/c/Users/PARAS/OneDrive/Desktop

```
SYSTEM INFORMATION MENU (Git Bash)
1. Display calendar of current month
2. Display today's date and time
3. Display usernames currently logged in
4. Display your terminal number
5. Exit
=====================================
Enter your choice (1-5): 3
Users currently logged in:

Press Enter to continue...
```

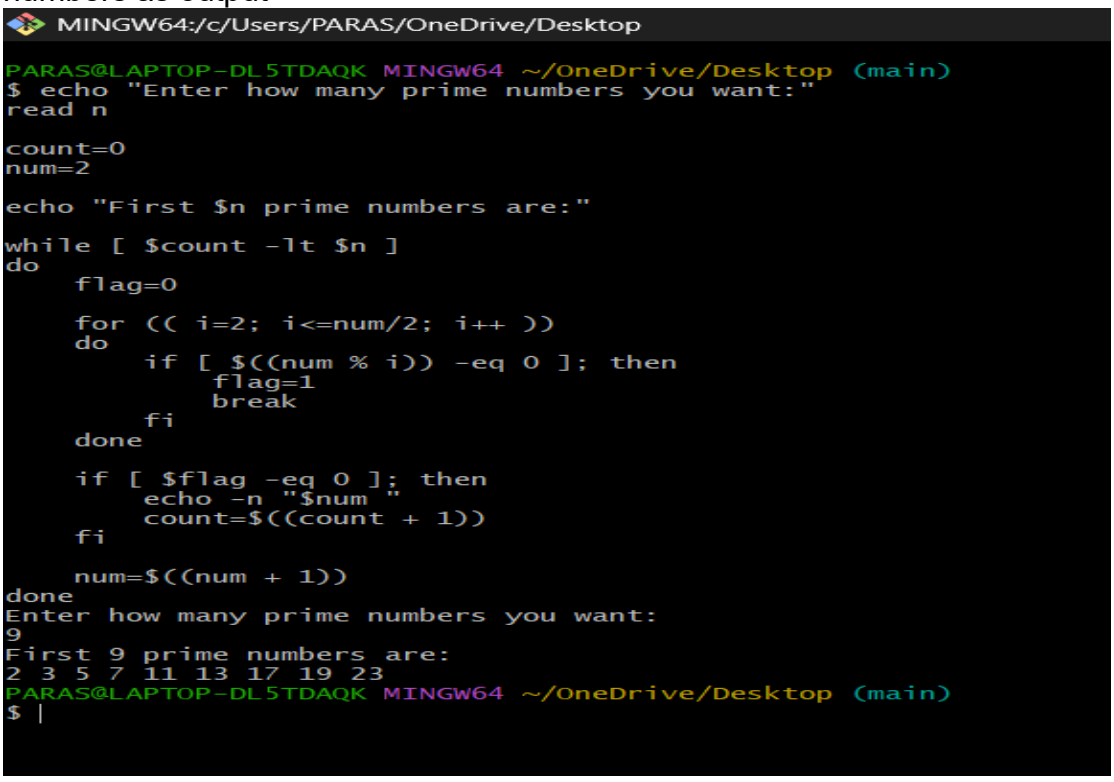
MINGW64:/c/Users/PARAS/OneDrive/Desktop

```
SYSTEM INFORMATION MENU (Git Bash)
1. Display calendar of current month
2. Display today's date and time
3. Display usernames currently logged in
4. Display your terminal number
5. Exit
=====================================
Enter your choice (1-5): 4
Your terminal number:
/dev/pty0

Press Enter to continue...
```

Q3. Write a shell script which will generate first n fibonnacci numbers like: 1, 1, 2, 3, 5, 13



Q4. Write a shell script which will accept a number b and display first n prime numbers as output



Q5. Write menu driven program for file handling activity

1. Creation of file
2. Write content in the file
3. Upend file content
4. Delete file content

```
MINGW64:/c/Users/PARAS/OneDrive/Desktop

PARAS@LAPTOP-DL5TDAQK MINGW64 ~/OneDrive/Desktop (main)
$ echo "Enter file name:"
read fname

while true
do
    echo "---------------- FILE MENU ----------------"
    echo "1. Create File"
    echo "2. Write Content in File"
    echo "3. Append File Content"
    echo "4. Delete File Content"
    echo "5. Exit"
    echo "-------------------------------------------"
    echo "Enter your choice:"
    read ch

    case $ch in
    1)
        touch $fname
        echo "File created successfully"
        ;;
    2)
        echo "Enter content (Press CTRL+D to save):"
        cat > $fname
        echo "Content written successfully"
        ;;
    3)
        echo "Enter content to append (Press CTRL+D to save):"
        cat >> $fname
        echo "Content appended successfully"
        ;;
    4)
        > $fname
        echo "File content deleted successfully"
        ;;
    5)
        echo "Exiting program..."
        exit
        ;;
    *)
        echo "Invalid choice"
        ;;
    esac
Enter file name:
os prac 2.txt
> done
```

```
---------------- FILE MENU ----------------
1. Create File
2. Write Content in File
3. Append File Content
4. Delete File Content
5. Exit
-------------------------------------------
Enter your choice:
1
File created successfully
---------------- FILE MENU ----------------
1. Create File
2. Write Content in File
3. Append File Content
4. Delete File Content
5. Exit
-------------------------------------------
Enter your choice:
2
Enter content (Press CTRL+D to save):
bash: $fname: ambiguous redirect
Content written successfully
---------------- FILE MENU ----------------
1. Create File
2. Write Content in File
3. Append File Content
4. Delete File Content
5. Exit
-------------------------------------------
Enter your choice:
3
Enter content to append (Press CTRL+D to save):
bash: $fname: ambiguous redirect
Content appended successfully
---------------- FILE MENU ----------------
1. Create File
2. Write Content in File
3. Append File Content
4. Delete File Content
5. Exit
-------------------------------------------
Enter your choice:
4
bash: $fname: ambiguous redirect
File content deleted successfully
---------------- FILE MENU ----------------
1. Create File
2. Write Content in File
3. Append File Content
4. Delete File Content
5. Exit
-------------------------------------------
Enter your choice:
```