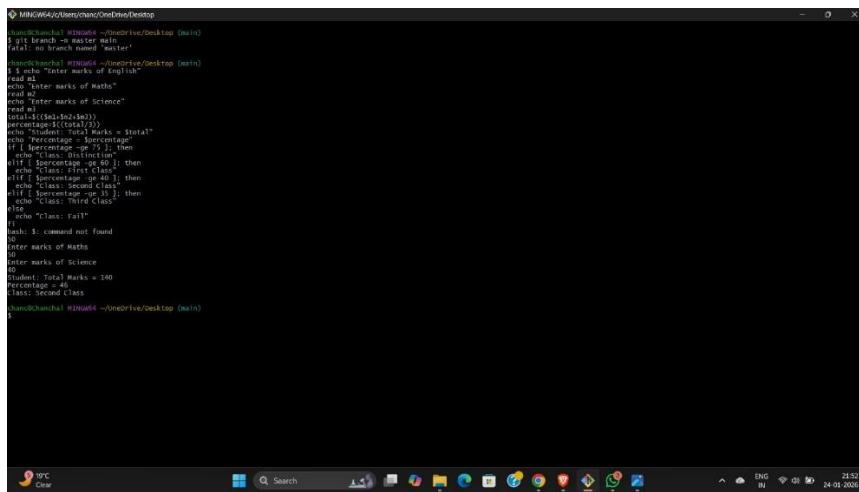


## PracticalNo : 2

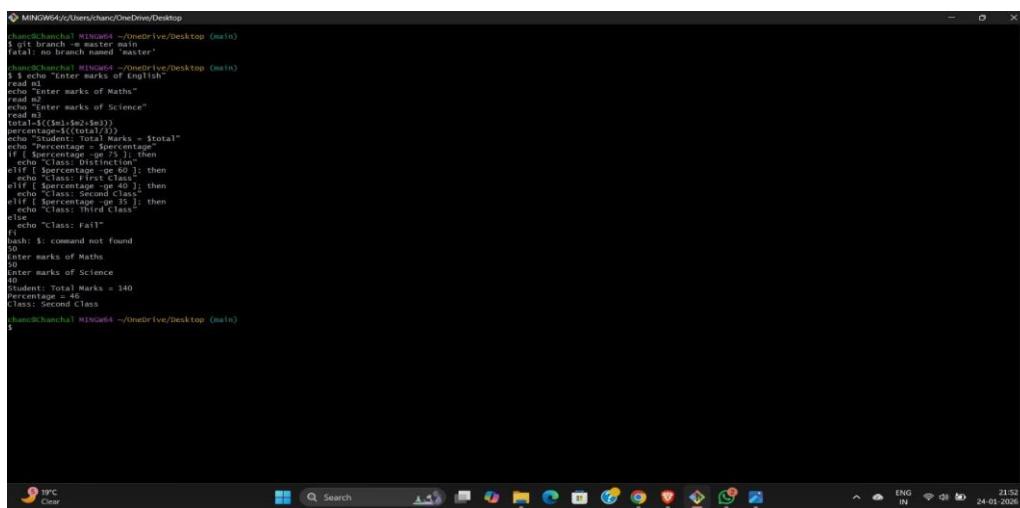
1. Write a shell script to generate mark- sheet of a student. Take 3 subjects, calculate and display total marks, percentage and Class obtained by the student.



```
MINGW64/c/Users/chanz/OneDrive/Desktop
$ git branch -m master/main
fatal: no branch named 'master'
chanchanchan$ 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*100/3))
echo "Student: Total Marks = $total"
echo "Percentage = $percentage"
if [ $percentage -ge 75 ]; then
    echo "Grade: First Class"
elif [ $percentage -ge 60 ]; then
    echo "Grade: Second Class"
elif [ $percentage -ge 40 ]; then
    echo "Grade: Third Class"
else
    echo "Grade: Fail"
fi
bash: $: command not found
$0
Enter marks of Maths
Enter marks of Science
$0
Student: Total Marks = 140
Percentage = 46
Grade: Second Class
chanchanchan$ 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/chanz/OneDrive/Desktop
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percentage=$((total*100/3))
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if [ $percentage -ge 75 ]; then
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else
    echo "Grade: Fail"
fi
bash: $: command not found
$0
Enter marks of Maths
$0
Enter marks of Science
$0
Student: Total Marks = 140
Percentage = 46
Grade: Second Class
chanchanchan$ MINGW64 ~/OneDrive/Desktop (main)
$
```

```

chanc@Chancha] 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
bash: $: command not found
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 22:02:38 IST 2026

chanc@Chancha] 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
bash: $: command not found
1. Calendar of current month
2. Today's date and time
3. Logged in users
4. Terminal number
Enter your choice
4
/dev/pty0

chanc@Chancha] MINGW64 ~/OneDrive/Desktop (main)
$
```

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

```

chanc@Chancha] 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 -eq 1 ]; then
    echo $a
fi
if [ $n -eq 2 ]; then
    echo $a
    echo $b
fi
for ((i=3; i<=n; i++))
do
    c=$((a+b))
    echo $c
    a=$b
    b=$c
done
echo "Enter how many Fibonacci numbers you want"
fibonacci series:
1 1 2 3 5 13

chanc@Chancha] MINGW64 ~/OneDrive/Desktop (main)
$
```

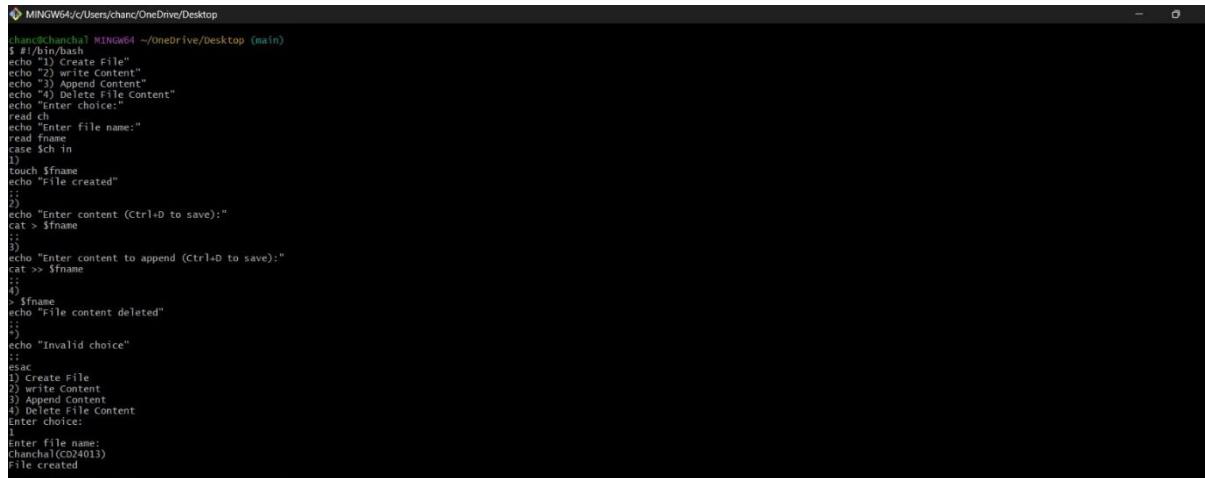
4. Write a shell script which will accept a number b and display first n prime numbers as output

```

chanc@Chancha] 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
```

## 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 titled "MINGW64" running on a Windows system. The command line is "c:\Users\chanc\OneDrive\Desktop (main)". The terminal displays a bash script for file handling. The script includes a menu with four options: Create File, Write Content, Append Content, and Delete File Content. It prompts the user to enter a choice and a file name. If the choice is 1, it creates a file named \$fname and outputs "File created". If the choice is 2, it prompts for content and writes it to the file. If the choice is 3, it appends content to the file. If the choice is 4, it deletes the file and outputs "File content deleted". If an invalid choice is entered, it outputs "Invalid choice". The script ends with an exit command. The user enters choice 1 and file name "chanchal(CD24013)", resulting in the output "file created".

```
chanc@Chanchal 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 choice
echo "Enter file name:"
read fname
case $choice 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:
chanchal(CD24013)
file created
```