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**

```
ayush@MANJARI MINGW64 ~/OneDrive/Desktop
$ #!/bin/bash

echo "Enter marks of subject 1:"
read m1
echo "Enter marks of subject 2:"
read m2
echo "Enter marks of subject 3:"
read m3

total=$((m1 + m2 + m3))
percentage=$((total / 3))

echo "Total Marks = $total"
echo "Percentage = $percentage%"

if [ $percentage -ge 60 ]; then
    echo "Class: First Class"
elif [ $percentage -ge 50 ]; then
    echo "Class: Second Class"
elif [ $percentage -ge 40 ]; then
    echo "Class: Pass"
else
    echo "Class: Fail"
fi
Enter marks of subject 1:
88
Enter marks of subject 2:
87
Enter marks of subject 3:
79
Total Marks = 254
Percentage = 84%
Class: First Class

ayush@MANJARI MINGW64 ~/OneDrive/Desktop
$
```

2. **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**
   - **Display your terminal number**

```
ayush@MANJARI MINGW64 ~/OneDrive/Desktop
$ #!/bin/bash

echo "1. Display calendar of current month"
echo "2. Display today's date and time"
echo "3. Display logged in usernames"
echo "4. Display terminal number"
echo "Enter your choice:"
read choice

case $choice in
1)
    echo "Current Month:"
    date +"%B %Y"
    ;;
2)
    date
    ;;
3)
    who
    ;;
4)
    tty
    ;;
*)
    echo "Invalid choice"
    ;;
esac
1. Display calendar of current month
2. Display today's date and time
3. Display logged in usernames
4. Display terminal number
Enter your choice:
2
Sat Jan 31 19:46:04 IST 2026

ayush@MANJARI MINGW64 ~/OneDrive/Desktop
$
```

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

```
ayush@MANJARI MINGW64 ~/OneDrive/Desktop
$ #!/bin/bash

echo "1. Display calendar of current month"
echo "2. Display today's date and time"
echo "3. Display logged in usernames"
echo "4. Display terminal number"
echo "Enter your choice:"
read choice

case $choice in
1)
    echo "Current Month:"
    date +"%B %Y"
    ;;
2)
    date
    ;;
3)
    who
    ;;
4)
    tty
    ;;
*)
    echo "Invalid choice"
    ;;
esac
1. Display calendar of current month
2. Display today's date and time
3. Display logged in usernames
4. Display terminal number
Enter your choice:
2
Sat Jan 31 19:46:04 IST 2026

ayush@MANJARI MINGW64 ~/OneDrive/Desktop
$
```

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

```
ayush@MANJARI MINGW64 ~/OneDrive/Desktop
$ #!/bin/bash

echo "1. Display calendar of current month"
echo "2. Display today's date and time"
echo "3. Display logged in usernames"
echo "4. Display terminal number"
echo "Enter your choice:"
read choice

case $choice in
1)
    echo "Current Month:"
    date +"%B %Y"
    ;;
2)
    date
    ;;
3)
    who
    ;;
4)
    tty
    ;;
*)
    echo "Invalid choice"
    ;;
esac
1. Display calendar of current month
2. Display today's date and time
3. Display logged in usernames
4. Display terminal number
Enter your choice:
2
Sat Jan 31 19:46:04 IST 2026

ayush@MANJARI MINGW64 ~/OneDrive/Desktop
$
```

5. Write menu driven program for file handling activity

- **Creation of file**
- **Write content in the file**
- **Upend file content**
- **Delete file content**

```
ayush@MANJARI MINGW64 ~/OneDrive/Desktop
$ #!/bin/bash

echo "Enter file name:"
read file

echo "1. Create file"
echo "2. Write content"
echo "3. Append content"
echo "4. Delete file content"
echo "Enter choice:"
read choice

case $choice in
1)
    touch $file
    echo "File created"
    ;;
2)
    echo "Enter content (Ctrl+D to save):"
    cat > $file
    ;;
3)
    echo "Enter content to append (Ctrl+D to save):"
    cat >> $file
    ;;
4)
    > $file
    echo "File content deleted"
    ;;
*)
    echo "Invalid choice"
    ;;
esac
Enter file name:
test.txt
1. Create file
2. Write content
3. Append content
4. Delete file content
Enter choice:
1
File created

ayush@MANJARI MINGW64 ~/OneDrive/Desktop
$
```