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.

CODE:

MINGW64:/c/Users/VIDISHA/OneDrive/Desktop/Shell_Practicals

```
  GNU nano 8.7                                                marksheet.sh
#!/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
```

OUTPUT:

MINGW64:/c/Users/VIDISHA/OneDrive/Desktop/Shell_Practicals

```
VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop
$ mkdir Shell_Practicals

VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop
$ cd Shell_Practicals

VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ pwd
/c/Users/VIDISHA/OneDrive/Desktop/Shell_Practicals

VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ nano marksheet.sh

VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash marksheet.sh
Enter marks of Subject 1:
60
Enter marks of Subject 2:
60
Enter marks of Subject 3:
60
Total Marks = 180
Percentage = 60%
Class: First Class

VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$
```

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?

CODE:

MINGW64:/c/Users/VIDISHA/OneDrive/Desktop/Shell_Practicals

```
  GNU nano 8.7                                                menu.sh
#!/bin/bash

echo "1. Display Calendar"
echo "2. Display Date and Time"
echo "3. Display Logged in Users"
echo "4. Display Terminal Number"
echo "Enter your choice:"
read ch

case $ch in
1) date +"%B %Y" ;;
2) date ;;
3) who ;;
4) tty ;;
*) echo "Invalid choice" ;;
esac
```

OUTPUT:

```
VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ nano menu.sh

VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash menu.sh
1. Display Calendar
2. Display Date and Time
3. Display Logged in Users
4. Display Terminal Number
Enter your choice:
1
January 2026

VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash menu.sh
1. Display Calendar
2. Display Date and Time
3. Display Logged in Users
4. Display Terminal Number
Enter your choice:
2
Mon Jan 19 22:00:19 IST 2026

VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash menu.sh
1. Display Calendar
2. Display Date and Time
3. Display Logged in Users
4. Display Terminal Number
Enter your choice:
3

VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash menu.sh
1. Display Calendar
2. Display Date and Time
3. Display Logged in Users
4. Display Terminal Number
Enter your choice:
4
/dev/pty2
```

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

CODE:

MINGW64:/c/Users/VIDISHA/OneDrive/Desktop/Shell_Practicals

```
  GNU nano 8.7                                                fibonacci.sh
#!/bin/bash

echo "Enter number:"
read n

a=0
b=1

echo "Fibonacci Series:"
for ((i=1;i<=n;i++))
do
  echo -n "$b "
  c=$((a + b))
  a=$b
  b=$c
done
```

OUTPUT:

```
VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash fibonacci.sh
Enter number:
6
Fibonacci Series:
1 1 2 3 5 8
VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash fibonacci.sh
Enter number:
9
Fibonacci Series:
1 1 2 3 5 8 13 21 34
VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash fibonacci.sh
Enter number:
15
Fibonacci Series:
1 1 2 3 5 8 13 21 34 55 89 144 233 377 610
VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$
```

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

CODE:

MINGW64:/c/Users/VIDISHA/OneDrive/Desktop/Shell_Practicals

```
  GNU nano 8.7
#!/bin/bash

echo "Enter n:"
read n

count=0
num=2

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

   if [ $flag -eq 1 ]
   then
      echo -n "$num "
      count=$((count + 1))
   fi

   num=$((num + 1))
done
```

OUTPUT:

```
VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash prime.sh
Enter n:
20
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71
VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash prime.sh
Enter n:
25
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97
VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash prime.sh
Enter n:
22
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79
VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$
```

5. Write menu driven program for file handling activity Creation of file. Write content in the file. Upend file content. Delete file content?

CODE:

MINGW64:/c/Users/VIDISHA/OneDrive/Desktop/Shell_Practicals

```
  GNU nano 8.7
#!/bin/bash

echo "1. Create File"
echo "2. Write into File"
echo "3. Append File"
echo "4. Delete File Content"
echo "Enter choice:"
read ch

echo "Enter filename:"
read fname

case $ch in
1) touch $fname ;;
2) echo "Enter text:" ; read text ; echo "$text" > $fname ;;
3) echo "Enter text:" ; read text ; echo "$text" >> $fname ;;
4) > $fname ;;
*) echo "Invalid choice" ;;
esac
```

OUTPUT:

```
VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ nano filemenu.sh

VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash filemenu.sh
1. Create File
2. Write into File
3. Append File
4. Delete File Content
Enter choice:
1
Enter filename:
practical3

VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash filemenu.sh
1. Create File
2. Write into File
3. Append File
4. Delete File Content
Enter choice:
2
Enter filename:
practical3
Enter text:
hello world

VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash filemenu.sh
1. Create File
2. Write into File
3. Append File
4. Delete File Content
Enter choice:
3
Enter filename:
practical3
Enter text:
hiii

VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$ bash filemenu.sh
1. Create File
2. Write into File
3. Append File
4. Delete File Content
Enter choice:
4
Enter filename:
practical3

VIDISHA@DESKTOP-KHV52LE MINGW64 ~/OneDrive/Desktop/Shell_Practicals
$
```