NAME:- Janvi Kapse **USN:-**CD24019

AIM:- 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/Janvi Kapse/OneDrive/Desktop/OS_CD24019

```
Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (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/3))
echo "Student: Total Marks = $total"
echo "Percentage = $percentage"
if [ $percentage -ge 75 ]; then
        echo "Class: Destination"
elif [ $percentage -ge 60 ]; then
        echo "Class: First Class"
elif [ $percentage -ge 40 ]; then
        echo "Class: Second Class"
elif [ $percentage -ge 35 ]; then
        echo "Class: Third Class"
else
        echo "Class Fail"
fi
Enter marks of English
95
Enter marks of Maths
92
Enter marks of Science
86
Student: Total Marks = 273
Percentage = 91
Class: Destination

Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (main)
$
```

AIM:- 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

```
Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (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
1
January 2026

Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (main)
$
```

```
Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (main)
$ #!/bin/bash

echo "1. Calender 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. Calender of current month
2. Today's date and time
3. Logged in users
4. Terminal number
Enter your choice
3
```

```
Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (main)
$ #!/bin/bash

echo "1. Calender 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. Calender of current month
2. Today's date and time
3. Logged in users
4. Terminal number
Enter your choice
2
Sat Jan 24 20:52:39 IST 2026

Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (main)
$
```

```
Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (main)
$  #!/bin/bash

echo "1. Calender 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. Calender of current month
2. Today's date and time
3. Logged in users
4. Terminal number
Enter your choice
4
/dev/pty0

Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (main)
```

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

```
Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (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

Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (main)
$
```

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

```
Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (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
5
First 5 prime numbers are:
2 3 5 7 11

Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (main)
$
```

AIM:- Write menu driven program for file handling activity.

```
Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (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
bash: $: command not found
1) Create File
2) write Content
3) Append Content
4) Delete File Content
Enter choice:
1
Enter file name:
Practical
File created

Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop/OS_CD24019 (main)
$ S
```