

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/Sakshi.Wadiyalwar/OneDrive/Desktop/OS_CD24001
sakshi@Wadiyalwar@DESKTOP-JJN908K MINGW64 ~/OneDrive/Desktop/OS_CD24001 (master)
$ 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: Distinction"
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
100
Enter marks of Maths
18
Enter marks of Science
76
Student: Total Marks = 194
Percentage = 64
Class: First Class
sakshi@Wadiyalwar@DESKTOP-JJN908K MINGW64 ~/OneDrive/Desktop/OS_CD24001 (master)
$ |
```

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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

```
MINGW64/c/Users/Sakshi Wadiyalwar/OneDrive/Desktop/OS_CD24001
sakshi wadiyalwar@DESKTOP-3JN908K MINGW64 ~/OneDrive/Desktop/OS_CD24001 (master)
$ #!/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

1. Calendar of current month
2. Today's date and time
3. Logged in users
4. Terminal number
Enter your choice
1
January 2026

sakshi wadiyalwar@DESKTOP-3JN908K MINGW64 ~/OneDrive/Desktop/OS_CD24001 (master)
$ #!/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

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 21:49:14 IST 2026

sakshi wadiyalwar@DESKTOP-3JN908K MINGW64 ~/OneDrive/Desktop/OS_CD24001 (master)
$
```

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

```
MINGW64/c/Users/Sakshi Wadiyalwar/OneDrive/Desktop/OS_CD24001
sakshi wadiyalwar@DESKTOP-1JN908K MINGW64 ~/OneDrive/Desktop/OS_CD24001 (master)
$ #!/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
sakshi wadiyalwar@DESKTOP-1JN908K MINGW64 ~/OneDrive/Desktop/OS_CD24001 (master)
$ |
```

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

```
MINGW64/c/Users/Sakshi Wadiyalwar/OneDrive/Desktop/OS_CD24001
sakshi wadiyalwar@DESKTOP-1JN908K MINGW64 ~/OneDrive/Desktop/OS_CD24001 (master)
$ #!/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
sakshi wadiyalwar@DESKTOP-1JN908K MINGW64 ~/OneDrive/Desktop/OS_CD24001 (master)
$
```

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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

```
MINGW64/c/Users/Sakshi Wadiyalwar/OneDrive/Desktop/OS_CD24001
sakshi wadiyalwar@DESKTOP-3JN90BK MINGW64 ~/OneDrive/Desktop/OS_CD24001 (master)
$ #!/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
1) Create File
2) Write content
3) Append Content
4) Delete File Content
Enter choice:
1
Enter file name:
pract2
File created

sakshi wadiyalwar@DESKTOP-3JN90BK MINGW64 ~/OneDrive/Desktop/OS_CD24001 (master)
$ #!/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):"
```

```
MINGW64/c/Users/Sakshi Wadiyalwar/OneDrive/Desktop/OS_CD24001
4) ;;
   > $fname
   echo "File content deleted"
   ;;
5) echo "Invalid choice"
   ;;
esac
1) Create File
2) Write Content
3) Append Content
4) Delete File Content
Enter choice:
1
Enter file name:
pract2
File created

Sakshi wadiyalwar@DESKTOP-1JN908K MINGW64 ~/OneDrive/Desktop/OS_CD24001 (master)
$ #!/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"
   ;;
5) echo "Invalid choice"
   ;;
esac
1) Create File
2) Write Content
3) Append Content
4) Delete File Content
Enter choice:
2
Enter file name:
pract2
Enter content (Ctrl+D to save):
hey i am ayushi!
Sakshi wadiyalwar@DESKTOP-1JN908K MINGW64 ~/OneDrive/Desktop/OS_CD24001 (master)
$ |
```



20°C
Clear



Search



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22:00
24/01/2026

