

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

 MINGW64:/c/OS_Lab_CM24066

Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)

\$./marksheet.sh

----- STUDENT MARKSHEET -----

Enter Student Name: Akshad

Enter Roll Number: USN CM24066

Enter marks for Subject 1: 95

Enter marks for Subject 2: 92

Enter marks for Subject 3: 91

----- MARKSHEET -----

Name : Akshad

Roll No : USN CM24066

Subject 1 : 95

Subject 2 : 92

Subject 3 : 91

Total Marks : 278 / 300

Percentage : 92 %

Class : Distinction

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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 user names those are currently logged in the system
- Display your terminal number

```
MINGW64:/c/OS_Lab_CM24066
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$ ./menu.sh
-----
          MENU PROGRAM
-----
1. Display calendar of current month
2. Display today's date and time
3. Display usernames currently logged in
4. Display your terminal number
5. Exit
-----
Enter your choice: 1
Tue Jan 20 14:25:17 IST 2026
-----
          MENU PROGRAM
-----
1. Display calendar of current month
2. Display today's date and time
3. Display usernames currently logged in
4. Display your terminal number
5. Exit
-----
Enter your choice: 2
Tue Jan 20 14:25:18 IST 2026
-----
          MENU PROGRAM
-----
1. Display calendar of current month
2. Display today's date and time
3. Display usernames currently logged in
4. Display your terminal number
5. Exit
-----
Enter your choice: 3
Akshad Wanjare
-----
          MENU PROGRAM
-----
1. Display calendar of current month
2. Display today's date and time
3. Display usernames currently logged in
4. Display your terminal number
5. Exit
-----
Enter your choice: 4
/dev/pty0
-----
          MENU PROGRAM
-----
1. Display calendar of current month
2. Display today's date and time
3. Display usernames currently logged in
4. Display your terminal number
5. Exit
-----
Enter your choice: 5
Exiting...
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$
```

3) Write a shell script which with generate first n Fibonacci numbers like: 1, 1, 2, 3, 5, 13

```
MINGW64:/c/OS_Lab_CM24066
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$ nano fibonacci.sh
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$ chmod +x fibonacci.sh
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$ ./fibonacci.sh
Enter n:
3
Fibonacci Series:
1 1 2
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$ 15
bash: 15: command not found
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$ ./fibonacci.sh
Enter n:
15
Fibonacci Series:
1 1 2 3 5 8 13 21 34 55 89 144 233 377 610
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$
```

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

```
MINGW64:/c/OS_Lab_CM24066
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$ nano prime.sh
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$ chmod +x prime.sh
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$ ./prime.sh
Enter n:
5
2 3 5 7 11
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$ ./prime.sh
Enter n:
10
2 3 5 7 11 13 17 19 23 29
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$ ./prime.sh
Enter n:
15
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$
```

5) Write menu driven program for file handling activity

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

MINGW64:/c/OS_Lab_CM24066

```
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$ nano file.sh
```

```
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$ chmod +x file.sh
```

```
Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)
$ ./file.sh
```

FILE HANDLING MENU

1. Create a file
2. Write content to file
3. Append content to file
4. Delete file content
5. Exit

Enter your choice (1-5): 1
Enter file name to create: Akshad
File created successfully.

Press Enter to continue...

FILE HANDLING MENU

1. Create a file
2. Write content to file
3. Append content to file
4. Delete file content
5. Exit

Enter your choice (1-5): 2
Enter file name to write: Akshad
Enter content (Press CTRL+D to save):
USN CM24066
Content written successfully.

Press Enter to continue...

FILE HANDLING MENU

1. Create a file
2. Write content to file
3. Append content to file
4. Delete file content
5. Exit

Enter your choice (1-5): 3
Enter file name to append: Akshad
Enter content to append (Press CTRL+D to save):
Sec B CSE(AI&ML)
Content appended successfully.

Press Enter to continue...

FILE HANDLING MENU

1. Create a file
2. Write content to file
3. Append content to file
4. Delete file content
5. Exit

Enter your choice (1-5): 3
Enter file name to append: Akshad
Enter content to append (Press CTRL+D to save):
Sec B CSE(AI&ML)
Content appended successfully.

Press Enter to continue...

FILE HANDLING MENU

1. Create a file
2. Write content to file
3. Append content to file
4. Delete file content
5. Exit

Enter your choice (1-5): 4
Enter file name to delete content: Akshad
File content deleted successfully.

Press Enter to continue...

FILE HANDLING MENU

1. Create a file
2. Write content to file
3. Append content to file
4. Delete file content
5. Exit

Enter your choice (1-5): 5
Exiting... Goodbye!

Akshad Wanjare@LAPTOP-ABSVSLTV MINGW64 /c/OS_Lab_CM24066 (main)

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