

- 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
-----
```

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

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 will 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
- Append 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)

\$

