

LAB TASK OS\_D  
MARKS 20 TIME: 2.45 minutes (Approx.)

Complete all tasks, take as many screenshots as needed for a task. Make a pdf with those (separate those in such a way that it can easily be understood which screenshot is for which question). Upload in the team's assignment section within the allocated time.

If you have a query, ask TA or message in the group. Do not ask for any irrelevant questions or help.

1. Create a shell script file when it is executed it will ask for id and password if the id and password is verified it will print logged in if the id and password is incorrect then it will print invalid id and password. Given ID and password are "AIUB" and "4231" respectively.
2. Write a program that asks the user for a number n and prints the sum of the numbers 1 to n
3. Create a shell script file and write code to count all the even odd numbers from 1 to 30. Use while loop and all numbers should be mentioned whether it is odd or even.
4. Write a shell script that will print the following menu,

1. Basic Mathematical Calculation
2. Compare Numbers
3. Calculate CGPA
4. Exit

User can choose any option from the menu and do the operation.

Option 1 should pop up another menu like,

1. Addition
2. Subtraction
3. Multiplication
4. Division

Each option in the menu will have two input fields. Inputs can be integer/float.

Option 2 will print the greatest and lowest numbers between the inputs (three inputs).

Option 3 will take input of no of semesters and GPA for each semester and calculate the CGPA. If CGPA is less than 2.50 student is in probation (print appropriate message). Also print if the student is up for any medal. ( $\geq 3.50$  bronze medal,  $\geq 3.75$  silver medal, 4.00 gold medal)

Once one operation is done the main menu should pop up again.

Option 4 should quit the whole operation.

5. Write a shell script to calculate the sum of 1~100.
6. Write a shell script that will ask for following inputs from the user and print them,

Name,

Occupation,  
Institution,  
Id No,  
Date. (User will not input any date. Print current date)