

Shell Script Development – Terminal-Based Calculator

Objective:

Develop a shell script that functions as a basic calculator with a menu-driven interface displayed in the terminal. The calculator should be capable of performing the following operations:

1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Modulus
6. Sine
7. Cosine
8. Tangent
9. Factorial
10. Square
11. Square Root
12. Logarithm
13. Exit

Requirements:

- Upon execution, the script should display all available functions in the terminal.
- The user should be able to choose any operation from the menu and receive the corresponding result.

Submission Guidelines (for physical project submission):

1. A printed copy of your shell script. The file name must be the last four digits of your student ID.
2. A handwritten explanation of each function included in the script.
3. Screenshots showing the successful execution of each function.

Last Date of Submission and Viva: 03 Nov 2025