

Assignment: Simple Java Calculator

Create a basic Java calculator program that performs the four basic arithmetic operations: addition, subtraction, multiplication, and division. The program should take input from the user for two numbers and an operator, perform the requested operation, and display the result.

Requirements:

1. The calculator should be implemented as a Java console application.
2. The program should prompt the user to enter the first number, then the second number, and finally the operator (+, -, *, /).
3. The program should handle invalid input gracefully, such as non-numeric input or an invalid operator.
4. Division by zero should be handled appropriately with a meaningful error message.
5. After performing the calculation, the program should display the result to the user.
6. The program should continue running until the user chooses to exit.

Bonus:

1. Implement additional functionality, such as exponentiation (^) or modulo (%).
2. Add error handling for edge cases, such as overflow or underflow when performing calculations.

Submission Guidelines:

1. Submit the Java source code files containing your calculator implementation by mail or just share your GitHub repository.
2. Include a brief description of how your program works and any additional features you implemented beyond the basic requirements.

Have a nice weekend 😊