Project Documentation: Console-Based Calculator in Java

Project Overview:

This project involves the development of a console-based calculator in Java. The calculator allows users to perform basic arithmetic operations (+, -, *, /) on two real numbers via command line input. The application adheres to object-oriented programming principles, utilizing an abstract class to define the structure for operator classes.

Usage:

To run the calculator from the command line, use the following format:

java MySoftware <operator> <A> <B>

Where:

<operator> can be one of: +, -, *, or /

<A> and <B> are real numbers.

Example:
To add two numbers:

java MySoftware + 10 5

this command will output:

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Team Contributions:

BOUREZG Mouadh:
Compiled the Java files and created the JAR file package.
Compressed the final project folder and pushed it to the repository.

MOKHTARI Zakaria
Assisted in documentation efforts for the project.
Created the operation classes (Addition, Subtraction, Multiplication, Division), ensuring they adhered to the structure defined by the Calculator abstract class.

CHABIRA Abdelrahim Anes:
Developed the MySoftware class, which serves as the main entry point for the application and manages user input and output.

 ARROUDJ Merouane Abdelhalim:
Led the documentation process, ensuring clarity and completeness of the project documentation and user guide.

 Collaborative Efforts:
All team members contributed to testing the code to ensure functionality and reliability of the calculator.

Conclusion:

 The console-based calculator project effectively demonstrates the application of object-oriented programming principles in Java. Each team member played a vital role in its development, and collective testing ensured a robust final product.