

# Arithmetic Calculator Writeup

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- This arithmetic calculator performs 4 functions namely:
  1. Addition
  2. Subtraction
  3. Multiplication
  4. Division – Gives both Quotient and Remainder
- This is a menu driven program implemented using the do-while loop and it allows the user to enter the numbers.
- A switch case is used to choose the operation based on the user input.
- Four separate classes have been formed for the different operations of a calculator, which are as *sumClass*, *diffClass*, *productClass* and *divClass*.
- Instances of these classes are created in the class *arithCalc*.
- The *sumClass* handles the addition operation and allows the user to choose if they want to want add 2 numbers or 3 numbers.
- The *diffClass* handles the subtraction handles the subtraction operation.
- The *productClass* handles the multiplication operation.
- The *divClass* handles the division operation and offers the user to choose if they want the quotient or the remainder as the result.
- The *divClass* also implements exception handling to avoid the `java.lang.ArithmeticException` i.e. a number cannot be divided by zero.