Arithmetic Calculator code: -

```
mport java.util.Scanner;
      Scanner scanner = new Scanner(System.in);
          System.out.println("\nArithmetic Calculator Menu:");
          System.out.println("1. Addition");
          System.out.println("2. Subtraction");
          System.out.println("3. Multiplication");
          System.out.println("4. Division");
          System.out.println("5. Exit");
          System.out.print("Enter your choice: ");
          int choice = scanner.nextInt();
                  result = performAddition(scanner);
                  result = performSubtraction(scanner);
                  result = performMultiplication(scanner);
                  result = performDivision(scanner);
                  System.out.println("Exiting program.");
                  scanner.close();
                  System.out.println("Invalid Choice!");
          System.out.println("Result: " + result);
          System.out.print("Do you want to perform another operation?
          String continueChoice = scanner.next();
              System.out.println("Exiting program.");
              scanner.close();
```

```
System.out.print("Enter first number: ");
    double num1 = scanner.nextDouble();
    System.out.print("Enter second number: ");
    double num2 = scanner.nextDouble();
    return num1 + num2;
}

public static double performSubtraction(Scanner scanner) {
    System.out.print("Enter first number: ");
    double num1 = scanner.nextDouble();
    System.out.print("Enter second number: ");
    double num2 = scanner.nextDouble();
    return num1 - num2;
}

public static double performMultiplication(Scanner scanner) {
    System.out.print("Enter first number: ");
    double num1 = scanner.nextDouble();
    System.out.print("Enter second number: ");
    double num2 = scanner.nextDouble();
    return num1 * num2;
}

public static double performDivision(Scanner scanner) {
    System.out.print("Enter numerator: ");
    double numerator = scanner.nextDouble();
    System.out.print("Enter denominator: ");
    double denominator = scanner.nextDouble();
    if (denominator == 0) {
        System.out.println("Error: Division by zero");
        return Double.NaN; // Return NaN (Not-a-Number) for division by
    return numerator / denominator;
}
```