

```
import java.util.Scanner;
interface Calculator{
    double add(double a, double b);
    double subtract(double a, double b);
    double multiply(double a, double b);
    double divide(double a, double b);
}
class SimpleCalculator implements Calculator
{
    @Override
    public double add(double a, double b)
    {
        return a + b;
    }
    @Override
    public double subtract(double a, double b)
    {
        return a - b;
    }
    @Override
    public double multiply(double a, double b) {
        return a * b;
    }
    @Override
    public double divide(double a, double b) {
        if (b == 0) {
            System.out.println("Error: Division by zero is not allowed!");
            return Double.NaN;
        }
        return a / b;
    }
}
public class CalculatorProgram {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        Calculator calculator = new SimpleCalculator();
        System.out.print("Enter the first number:");
        double num1 = scanner.nextDouble();
        System.out.print("Enter the second number:");
        double num2 = scanner.nextDouble();
        System.out.println("\nResults:");
        System.out.println("Addition:" + calculator.add(num1, num2));
        System.out.println("Subtraction:" + calculator.subtract(num1, num2));
        System.out.println("Multiplication:" + calculator.multiply(num1, num2));
    }
}
```

```
        System.out.println("Division: "+ calculator.divide(num1, num2));
        scanner.close();
    }
}
```

Output

The screenshot shows an IDE's output window with two tabs: "Run (calculator.java)" and "Run (prg5)". The "Run (prg5)" tab is selected, displaying the following log:

```
Recompiling the module because of changed source code.
Compiling 1 source file with javac [debug release 25] to target
--- exec:3.5.1:exec (default-cli) @ prg5 ---
Enter the sum of money
1500
Interst for the first year is ?75.0
Interst after second year is ?78.75
Amount after three years is ?1736.4375
```