program in Java to verify implementations of methods and ways of calling a method

```
public class MethodDemo {
    // Method without parameters and return value
    public static void greet() {
        System.out.println("Hello! Welcome to MethodDemo!");
    }

    // Method with parameters and return value
    public static int add(int x, int y) {
        return x+y;
    }

    // Method with parameters and void return type
    public static void printSum(int x, int y) {
        int sum = x+y;
        System.out.println("Sum: " + sum);
    }

    // Main method (entry point of the program)
    public static void main(String[] args) {
        // Calling the greet() method
        greet();

        // Calling the add() method and storing the result
        int result = add(5, 3);
        System.out.println("Result of addition: " + result);

        // Calling the printSum() method
        printSum(10, 20);
```

```
        // Calling methods with different ways of passing arguments
        int s = 2;
        int t= 3;

        // Calling add() method by passing variables as arguments
        int sum1 = add(s, t);
        System.out.println("Sum 1: " + sum1);

        // Calling add() method by passing literals as arguments
        int sum2 = add(7, 8);
        System.out.println("Sum 2: " + sum2);

        // Calling add() method by passing expressions as arguments
        int sum3 = add(s+t, s - t);
        System.out.println("Sum 3: " + sum3);
    }
}
```