Method Overloading

```
public class Calculator {

    // Method to add two integers
    public int add(int a, int b) {
        return a + b;
    }

    // Overloaded method to add three integers
    public int add(int a, int b, int c) {
        return a + b + c;
    }

    // Overloaded method to add two double values
    public double add(double a, double b) {
        return a + b;
    }

    // Overloaded method to add an array of integers
    public int add(int[] numbers) {
        int sum = 0;
        for (int num : numbers) {
            sum += num;
        }
        return sum;
    }
```

```
    // Main method to test the Calculator methods
    public static void main(String[] args) {
        Calculator calc = new Calculator();

        // Testing different add methods
        System.out.println("Add two integers: " + calc.add(5, 7));
        System.out.println("Add three integers: " + calc.add(4, 5, 6));
        System.out.println("Add two doubles: " + calc.add(3.5, 2.8));

        int[] numbers = {2, 3, 4, 5};
        System.out.println("Add an array of integers: " + calc.add(numbers));
    }
}
```

OUTPUT

Add two integers: 12

Add three integers: 15

Add two doubles: 6.3

Add an array of integers: 14