## **Source Code:**

```
import java.util.Scanner;
public class CallMethod {
  public static void main(String[] args) {
     Scanner input = new Scanner(System.in);
     System.out.print("Enter your name: ");
     String name = input.nextLine();
     // Call a method with a return value
     int length = calculateLength(name);
     System.out.println("Length of the name is: " + length);
     // Call a method with parameters
     String greeting = sayHello(name);
     System.out.println(greeting);
     // Call a method with default parameter
     String defaultGreeting = sayHello();
     System.out.println(defaultGreeting);
     // Call a method with variable number of arguments
     System.out.print("Enter three numbers separated by space: ");
     int a = input.nextInt();
     int b = input.nextInt();
     int c = input.nextInt();
     int sum = calculateSum(a, b, c);
     System.out.println("Sum is: " + sum);
     // Call a static method
     String message = displayMessage();
     System.out.println(message);
     input.close();
  // Method with a return value
  public static int calculateLength(String str) {
     return str.length();
  }
  // Method with parameters
```

```
public static String sayHello(String name) {
    return "Hello " + name + "!";
  }
  // Method with default parameter
  public static String sayHello(String name, String greeting) {
    return greeting + " " + name + "!";
  }
  public static String sayHello() {
    return "Hello there!";
  // Method with variable number of arguments
  public static int calculateSum(int... numbers) {
    int sum = 0;
    for (int number : numbers) {
       sum += number;
    return sum;
  }
  // Static method
  public static String displayMessage() {
    return "This is a static method.";
  }
}
```

## **Outputs:**

```
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🔑 SearchSort.java 🕑 AvgSumMinMax... 🖟 Inner.java 🔯 Display.java 🖸 StringConve... 🔑 EmailValida... 🗘 CallMethod.java 🗴 🔭
                                                                                                                                           □ □ □ Console ×
          public static void main(String[] args) {
                                                                                                                                                    <terminated > CallMethod [Java Application] C:\Users\Administrator\.p2\poc
               Scanner input = new Scanner(System.in);
                                                                                                                                                    Enter your name: Adam
Length of the name is: 4
               System.out.print("Enter your name: ");
                                                                                                                                                    Hello Adam!
                String name = input.nextLine();
                                                                                                                                                    Hello there!
                                                                                                                                                    Enter three numbers separated by space: 5 8 69
               // Call a method with a return value
int length = calculateLength(name);
                                                                                                                                                    Sum is: 82
                                                                                                                                                    This is a static method.
               System.out.println("Length of the name is: " + length);
               // Call a method with parameters
String greeting = sayHello(name);
               System.out.println(greeting);
               // Call a method with default parameter
String defaultGreeting = sayHello();
               System.out.println(defaultGreeting);
               // Call a method with variable number of arguments System.out.print("Enter three numbers separated by space: ");
               int a = input.nextInt();
int b = input.nextInt();
               int c = input.nextInt();
int sum = calculateSum(a, b, c);
System.out.println("Sum is: " + sum);
               // Call a static method
String message = displayMessage();
               System.out.println(message);
               input.close();
          // Method with a return value
          public static int calculateLength(String str) {
               return str.length();
          // Method with parameters
         public static String sayHello(String name) {
    return "Hello" + name + "!";
```

```
1 package demo;
                                                                                                                              <terminated > CallMethod [Java Application] C:\Users\Administrator\.p2\pool
                                                                                                                               Enter your name: Sa
                                                                                                                               Length of the name is: 6
 4 import java.util.Scanner:
                                                                                                                               Hello Samm@y!
                                                                                                                               Hello there!
   public class CallMethod {
                                                                                                                               Enter three numbers separated by space: 25 69 88
       public static void main(String[] args) {
                                                                                                                               Sum is: 182
            Scanner input = new Scanner(System.in);
                                                                                                                               This is a static method.
            System.out.print("Enter your name: ");
            String name = input.nextLine();
            // Call a method with a return value
            int length = calculateLength(name);
            System.out.println("Length of the name is: " + length);
            // Call a method with parameters
            String greeting = sayHello(name);
            System.out.println(greeting);
            // Call a method with default parameter
String defaultGreeting = sayHello();
System.out.println(defaultGreeting);
            // Call a method with variable number of arguments
            System.out.print("Enter three numbers separated by space: ");
            int a = input.nextInt();
            int b = input.nextInt();
            int c = input.nextInt();
           int sum = calculateSum(a, b, c);
System.out.println("Sum is: " + sum);
            // Call a static method
String message = displayMessage();
13
14
            System.out.println(message);
            input.close();
19
       // Method with a return value
       public static int calculateLength(String str) {
           return str.length();
```