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

public class MethodDemo {

// A simple method that takes two integers as parameters and returns their sum

public static int sum(int a, int b) {

return a + b;

}

public static void main(String[] args) {

// Call the sum() method and print the result

int result1 = sum(2, 3);

System.out.println("Result 1: " + result1);

// Call the sum() method with variables as arguments

int x = 4;

int y = 5;

int result2 = sum(x, y);

System.out.println("Result 2: " + result2);

// Call the sum() method with expressions as arguments

int result3 = sum(1 + 2, 3 \* 4);

System.out.println("Result 3: " + result3);

// Call the sum() method with the result of another method as an argument

int result4 = sum(sum(2, 3), sum(4, 5));

System.out.println("Result 4: " + result4);

}

}

OUTPUT:

Result 1: 5

Result 2: 9

Result 3: 15

Result 4: 14