FUNCTIONS:

1. Write a program with a method named get Total that accepts two integers as an argument and return its sum. Call this method from main() and print the results.

Program:

```
Public class SumCalculator {
// Method to calculate the sum of two integers
public static int getTotal(int num1, int num2) {
  return num1 + num2;
}
public static void main(String[] args) {
  // Declare two integers
  int number 1 = 10;
  int number 2 = 20;
  // Call the getTotal method and store the result
  int result = getTotal(number1, number2);
  // Print the result
  System.out.println("The sum of " + number1 + " and " + number2 + " is: " + result);
}
```

Output:

}

2. Write a Java method to compute the sum of the digits in an integer.

Test Data:

Input an integer: 25

Expected Output: The sum is 7

Program:

```
import java.util.Scanner;
public class DigitSumCalculator {
 // Method to compute the sum of the digits in an integer
 public static int sumOfDigits(int number) {
   int sum = 0;
   while (number != 0) {
     sum += number % 10; // Extract the last digit and add to sum
     number /= 10; // Remove the last digit
   }
   return sum;
 }
 public static void main(String[] args) {
   Scanner scanner = new Scanner(System.in);
   // Input an integer
   System.out.print("Input an integer: ");
   int inputNumber = scanner.nextInt();
```

```
// Calculate the sum of the digits
   int result = sumOfDigits(inputNumber);
   // Print the result
   System.out.println("The sum is: " + result);
 }
}
Output:
Input an integer: 25
The sum is: 7
   3. Write a Java method to find the smallest number among three numbers.
       Test Data:
       Input the first number: 25
       Input the Second number: 37
      Input the third number: 29
       Expected Output:
      The smallest value is 25.0
Program:
import java.util.Scanner;
public class SmallestNumberFinder {
 // Method to find the smallest number among three numbers
 public static double findSmallest(double num1, double num2, double num3) {
   return Math.min(num1, Math.min(num2, num3));
 }
```

```
public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    // Input three numbers
    System.out.print("Input the first number: ");
    double firstNumber = scanner.nextDouble();
    System.out.print("Input the second number: ");
    double secondNumber = scanner.nextDouble();
    System.out.print("Input the third number: ");
    double thirdNumber = scanner.nextDouble();
   // Find the smallest number
    double smallest = findSmallest(firstNumber, secondNumber, thirdNumber);
   // Print the smallest number
   System.out.println("The smallest value is " + smallest);
 }
}
Output:
Input the first number: 25
Input the second number: 37
Input the third number: 29
The smallest value is 25.0
```

4. Write a Java method to compute the average of three numbers. Test Data: Input the first number: 25 Input the second number: 45 Input the third number: 65 Expected Output: The average value is 45.0

Program:

```
import java.util.Scanner;
public class AverageCalculator {
 // Method to compute the average of three numbers
 public static double computeAverage(double num1, double num2, double num3) {
   return (num1 + num2 + num3) / 3;
 }
 public static void main(String[] args) {
   Scanner scanner = new Scanner(System.in);
   // Input three numbers
   System.out.print("Input the first number: ");
   double firstNumber = scanner.nextDouble();
   System.out.print("Input the second number: ");
   double secondNumber = scanner.nextDouble();
   System.out.print("Input the third number: ");
   double thirdNumber = scanner.nextDouble();
   // Compute the average
```

```
double average = computeAverage(firstNumber, secondNumber, thirdNumber);
   // Print the average
   System.out.println("The average value is " + average);
 }
}
Output:
Input the first number: 25
Input the second number: 45
Input the third number: 65
The average value is 45.0
5. Write a program in Java to find the square of any number using the function. Test Data:
Input any number for square: 20 Expected Output: The square of 20 is: 400.00
Program:
import java.util.Scanner;
public class SquareCalculator {
 // Method to compute the square of a number
 public static double calculateSquare(double number) {
   return number * number;
```

}

```
public static void main(String[] args) {
   Scanner scanner = new Scanner(System.in);
   // Input a number
   System.out.print("Input any number for square: ");
   double inputNumber = scanner.nextDouble();
   // Calculate the square
   double square = calculateSquare(inputNumber);
   // Print the result
   System.out.printf("The square of %.2f is: %.2f\n", inputNumber, square);
 }
Output:
Input any number for square: 20
The square of 20.00 is: 400.00
   6. Write a program in to swap two numbers using function. Test Data: Input 1st
      number: 2 Input 2nd number: 4 Expected Output: Before swapping: n1 = 2, n2 = 4
       After swapping: n1 = 4, n2 = 2.
```

}

Program:

```
import java.util.Scanner;
public class NumberSwapper {
  // Method to swap two numbers
  public static void swapNumbers(int[] numbers) {
   // Swap using a temporary variable
   int temp = numbers[0];
   numbers[0] = numbers[1];
   numbers[1] = temp;
 }
  public static void main(String[] args) {
   Scanner scanner = new Scanner(System.in);
   // Input two numbers
   System.out.print("Input 1st number: ");
   int num1 = scanner.nextInt();
   System.out.print("Input 2nd number: ");
   int num2 = scanner.nextInt();
   // Print numbers before swapping
   System.out.println("Before swapping: n1 = " + num1 + ", n2 = " + num2);
   // Call swap function
   swapNumbers(new int[]{num1, num2});
   // Print numbers after swapping
   System.out.println("After swapping: n1 = " + num1 + ", n2 = " + num2);
 }
}
```

Output:

Before swapping: n1 = 2, n2 = 4

After swapping: n1 = 4, n2 = 2