Write a java program which creates an interface IterF1 having 2 methods add () and sub (). Create a class which overloads the given methods for addition and subtraction of two numbers respectively.

CODE:

import java.util.Scanner;

// Interface IterF1

interface IterF1 {

// Method to add two numbers

int add(int a, int b);

// Method to subtract two numbers

int sub(int a, int b);

}

// Class implementing the IterF1 interface

class Calculator implements IterF1 {

// Overriding the add method for addition

@Override

public int add(int a, int b) {

return a + b;

}

// Overriding the sub method for subtraction

@Override

public int sub(int a, int b) {

return a - b;

}

}

public class Interface {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Input two numbers

System.out.print("Enter the first number: ");

int num1 = scanner.nextInt();

System.out.print("Enter the second number: ");

int num2 = scanner.nextInt();

// Create an object of the Calculator class

Calculator calculator = new Calculator();

// Perform addition and display the result

int sum = calculator.add(num1, num2);

System.out.println("Sum of " + num1 + " and " + num2 + " is: " + sum);

// Perform subtraction and display the result

int difference = calculator.sub(num1, num2);

System.out.println("Difference of " + num1 + " and " + num2 + " is: " + difference);

scanner.close(); // Closing the scanner object

}

}

OUTPUT:

C:\javap>javac Interface.java

C:\javap>java Interface

Enter the first number: 7

Enter the second number: 5

Sum of 7 and 5 is: 12

Difference of 7 and 5 is: 2

