38. Write a Java program that reads an integer between 0 and 1000 and adds all the digits in the integer.

Test Data

Input an integer between 0 and 1000: 565

Expected Output :

The sum of all digits in 565 is 16

import java.util.Scanner;

public class Exercise38 {

public static void main(String[] Strings) {

Scanner scnr = new Scanner(System.in);

System.out.print("Input an integer between 0 and 1000: ");

int a = scnr.nextInt();

int firstDigit = a % 10;

int remainingNumber = a / 10;

int SecondDigit = remainingNumber % 10;

remainingNumber = remainingNumber / 10;

int thirdDigit = remainingNumber % 10;

remainingNumber = remainingNumber / 10;

int fourthDigit = remainingNumber % 10;

int sum = thirdDigit + SecondDigit + firstDigit + fourthDigit;

System.out.println("The sum of all digits in " + a + " is " + sum);

}

}