Lab Exercise 1

```
import java.util.Scanner;
public class PointsDistance {
      public static void main(String[] args) {
             Scanner input = new Scanner(System.in);
             System.out.print("Enter x1 and y1: ");
             double x1 = input.nextDouble();
             double y1 = input.nextDouble();
             System.out.print("Enter x2 and y2: ");
             double x2 = input.nextDouble();
             double y2 = input.nextDouble();
             double distance = Math.pow(Math.pow(x2 - x1, 2)
                                        + Math.pow(y2 - y1, 2), 0.5);
             System.out.println("The distance between the two points is " +
                                                                  distance);
             input.close();
      }
```

Lab Exercise 2

```
import java.util.Scanner;
public class SumDigits {
      public static void main(String[] args) {
             Scanner input = new Scanner(System.in);
             System.out.print("EEnter an integer between 0 and 1000: ");
             int num = input.nextInt();
             // example num = 456
             // getting the units (left digit)
             // num = 456 -> units = 6
             int units = num % 10;
             // getting the tens (middle digit)
             // num = 456 -> tens = 5
             int tens = num / 10 % 10;
             // getting the hundreds (right digit)
             // num = 456 -> hundreds = 4
             int hundreds = num / 100 % 10;
             int sum = units + tens + hundreds;
             System.out.println("The sum of all digits in " + num + " is " + sum);
             input.close();
      }
```