PROBLEM 1

```
import java.util.Scanner;

public class InputLab
{
    public static void main(String args[])
    {
        Scanner scan = new Scanner(System.in);

        System.out.print("Please enter your name: ");
        String name = scan.nextLine();
        System.out.println("Welcome " + name + "!");

        System.out.print("Please enter the first number: ");
        double num1 = scan.nextDouble();
        scan.nextLine();

        System.out.print("Please enter the second number: ");
        double num2 = scan.nextDouble();
        scan.nextLine();

        System.out.print("Please enter the third number: ");
        double num3 = scan.nextDouble();
        scan.nextLine();

        double average = (num1 + num2 + num3) / 3;
        System.out.println("The average of " + num1 + ", " + num2 + ", and " + num3 +
" is " + average);
    }
}
```

PROBLEM 2

```
import java.util.Scanner;

public class ReverseDigits
{
    public static void main(String args[])
    {
        Scanner scan = new Scanner(System.in);

        System.out.print("Please enter a 3-digit integer: ");
        int userNum = scan.nextInt();
        scan.nextLine();

        // parse out the three different digits
        int hundreds = userNum / 100;  // int division truncates
        int tens = (userNum % 100) / 10;
        int ones = (userNum % 100) % 10;

        System.out.println("The reverse of " + userNum + " is: " + ones + tens +
hundreds);
    }
}
```

PROBLEM 3

```
import java.util.Scanner;

public class Main
{
    public static void main(String args[])
    {
        Scanner scan = new Scanner(System.in);

        System.out.print("Player 1, enter your name: ");
        String player1 = scan.nextLine();

        System.out.print("Enter your number: ");
        int num1 = scan.nextInt();
        scan.nextLine();

        System.out.print("Player 2, enter your name: ");
        String player2 = scan.nextLine();

        System.out.print("Enter your number: ");
        int num2 = scan.nextInt();
        scan.nextLine();

        if (num1 > num2) {
            System.out.println(player1 + "'s number is bigger!");
        } else {
            System.out.println(player2 + "'s number is bigger!");
        }
    }
}
```

PROBLEM 4

```
import java.util.Scanner;

public class FiveDigits
{
    public static void main(String args[])
    {
        Scanner scan = new Scanner(System.in);

        System.out.print("Type in a 5-digit number: ");
        int userNum = scan.nextInt();
        scan.nextLine();

        int d1 = (userNum % 10 / 1 + 1) % 10;
        int d2 = (userNum % 100 / 10 + 1) % 10;
        int d3 = (userNum % 1000 / 100 + 1) % 10;
        int d4 = (userNum % 10000 / 1000 + 1) % 10;
        int d5 = (userNum % 100000 / 10000 + 1) % 10;

        System.out.println("The digits of " + userNum + " incremented by 1 are " + d5
+ d4 + d3 + d2 + d1);
    }
}
```

ALSO

```
Scanner scan = new Scanner(System.in);

System.out.println("Type in a 5 digit number: ");
int num = scan.nextInt();
scan.nextLine();

//int one
 int one = num/10000;

 if(one >= 9) {
   one = 0;
 }
 else{
   one = one + 1;
 }

//int two
 int two = num/1000;
   two = two%10;

 if(two >= 9) {
   two = 0;
```

```
        }
        else{
          two = two + 1;
        }

      //int three
        int three = num/100;
          three = three%10;

        if(three >= 9) {
          three = 0;
        }
          else{
          three = three + 1;
        }

       //int four
          int four = num/10;
          four = four%10;

          if(four >= 9) {
            four = 0;
          }
          else{
            four = four + 1;
          }

       //int five
          int five = num%10;

          if(five >= 9) {
              five = 0;
          }
          else{
            five = five + 1;
          }

       System.out.println("The number " + num + " incremented by 1 is " +
one + two + three + four + five);
        }
```