Problem-01: Java Programming for taking input from the user.

Code:

```java
3    package userinput;
4
5    import java.util.Scanner;
6
7
8    public class StudentInfo {
9
10       public static void main(String[] args) {
11
12           String name ;
13           System.out.print("enter the Student name:- ");
14           Scanner input = new Scanner(System.in);
15           name = input.nextLine();
16
17
18           int StudentId;
19           System.out.print("enter the studentId:-");
20           Scanner input2 = new Scanner(System.in);
21           StudentId=input2.nextInt();
22
23           int age;
24           System.out.print("enter the age of the student:-");
25           Scanner input3= new Scanner(System.in);
26           age=input3.nextInt();
27
28           System.out.println("the Student name is "+name);
29           System.out.println(" the id of the student is ="+StudentId);
30           System.out.println(" the age of the student is ="+age);
31       }
32    }
```

Output:-

```
enter the Student name:- Ikhoanus Safa Houqe
enter the studentId:-22070113
enter the age of the student:-24
the Student name is Ikhoanus Safa Houqe
 the id of the student is =22070113
 the age of the student is =24
-------------------------------------------------
BUILD SUCCESS
```

Problem 02:- Java programming to find the sum of two numbers

Code :-

```java
package javaproject;

import java.util.Scanner;


public class Javatestclass {

    public static void main(String[] args) {

        int num1;
        System.out.print("enter the first number:-");
        Scanner input = new Scanner(System.in);
        num1=input.nextInt();

        int num2;
        System.out.print("enter the second number:-");
        Scanner input2= new Scanner(System.in);
        num2=input2.nextInt();



        System.out.println(" sum of these numbers is ="+(num1+num2));
    }
}
```

Output:-

```
enter the first number:-12
enter the second number:-45
  sum of these numbers is =57
------------------------------------------
BUILD SUCCESS
------------------------------------------
```

Problem 03:- Java programming to check whether a number is even or odd.

Code :-

```java
package javaproject;

import java.util.Scanner;


public class Javatestclass {

    public static void main(String[] args) {

        int num;
        System.out.print("enter any positive number:-");
        Scanner input = new Scanner(System.in);
        num=input.nextInt();

        if(num % 2==0) {
          System.out.println("The number is even");
        }

        else {
        System.out.println("The number is odd");
        }
    }
}
```

Output :-

```
enter any positive number:- 5
The number is odd
-----------------------------------------
BUILD SUCCESS
-----------------------------------------
```

Problem 04:- Java programming to find the factorial of a number

Code :-

```java
package javaproject;

import java.util.Scanner;


public class Javatestclass {

    public static void main(String[] args) {

        int num;
        System.out.print("enter any positive number:-");
        Scanner input = new Scanner(System.in);
        num=input.nextInt();

        int fact=1;
        for (int i =num; i >=1; i--){
        fact =fact * i;
        }
        System.out.print("Factorial of "+num + "=" +fact);
    }
}
```

Output :-

```
enter any positive number:-5
Factorial of 5=120
------------------------------------------------
BUILD SUCCESS
------------------------------------------------
```

Problem 05:- Java programming to check if a number prime

Code :-

```java
package javaproject;

import java.util.Scanner;


public class Javatestclass {

    public static void main(String[] args) {

        int num;
        System.out.print("enter any positive number:-");
        Scanner input = new Scanner(System.in);
        num=input.nextInt();
        int count=0;

        if (num ==0 || num==1){
            System.out.print("the number is not  prime ");}

        else{
        for (int i = 2; i < num; i++){
        if(num%i==0){
        count++;
        break;       }
                                    }
        if (count ==0){
            System.out.print("the number is  prime ");}
        else {
        System.out.print("the number is not prime ");}
        }
        }
        }
```

Output :-

```
enter any positive number:-5
the number is prime
------------------------------------------------
BUILD SUCCESS
------------------------------------------------
```

Problem 06:- Java programming to find the largest among three numbers

Code :-

```java
package javaproject;

import java.util.Scanner;


public class Javatestclass {

    public static void main(String[] args) {

        int num1,num2,num3;
        Scanner input1 = new Scanner(System.in);
        System.out.print("enter the first number:-");
        num1=input1.nextInt();
        System.out.print("enter the second number:-");
        Scanner input2 = new Scanner(System.in);
        num2=input2.nextInt();
        System.out.print("enter the third number:-");
        Scanner input3 = new Scanner(System.in);
        num3=input3.nextInt();

        if (num1> num2 && num1>num3){
            System.out.print("num1 is the largest number ");}

        else if(num2> num1 && num2>num3){
            System.out.print("num2 is the largest number "); }

        else {
                System.out.print("num3 is the largest number ");}
        }
    }
```

Output :-

```
enter the first number:-52
enter the second number:-65
enter the third number:-98
num3 is the largest number
-----------------------------------------------------------
BUILD SUCCESS
```