Assignment 03

Aromal S K
22BAI10288

P1

Code :

```java
class Student {

    int id;
    String name;

    public static void main(String[] args) {

        Student s1 = new Student();

        System.out.println(s1.id);
        System.out.println(s1.name);

    }

}
```

Output :

```
java -cp /tmp/iH2QM2buwG Student
0
null
```

P2

Code :

```java
class Student {

    int id;
    String name;

}

class TestStudent2 {

    public static void main(String[] args) {

        Student s1 = new Student();

        s1.id = 69;
        s1.name = "Aromal";

        System.out.println(s1.id + " " + s1.name);

    }

}
```

Output :

```
Output

java -cp /tmp/iH2QM2buwG TestStudent2
69 Aromal
```

P3

Code :

```java
class Student {

    int id;
    String name;

}

class TestStudent3 {

    public static void main(String[] args) {

        Student s1 = new Student();
        Student s2 = new Student();

        s1.id = 69;
        s1.name = "Aromal";

        s2.id = 42;
        s2.name = "Bupendar Jogi";

        System.out.println(s1.id + " " + s1.name);
        System.out.println(s2.id + " " + s2.name);

    }

}
```

Output:

```
Output

java -cp /tmp/iH2QM2buwG TestStudent3
69 Aromal
42 Bupendar Jogi
```

P4

Code :

```java
class Student {

    int rollno;
    String name;

    void insertRecord(int r, String n) {

        rollno = r;
        name = n;

    }

    void displayInformation() {

        System.out.println(rollno + " " + name);

    }

}

class TestStudent4 {

    public static void main(String[] args) {

        Student s1 = new Student();
        Student s2 = new Student();

        s1.insertRecord(69,"Aromal");
        s2.insertRecord(42,"Bupender");

        s1.displayInformation();
        s2.displayInformation();

    }

}
```

Output :

```
Output

java -cp /tmp/iH2QM2buwG TestStudent4
69 Aromal
42 Bupender
```

P5

Code :

```java
class Rectangle {

    int lenght;
    int width;

    void insert(int l, int w) {

        lenght = l;
        width = w;

    }

    void calculateArea() {

        System.out.println("Area = " + lenght*width);

    }

}

class TestRectangle1 {

    public static void main(String[] args) {

        Rectangle r1 = new Rectangle();
        Rectangle r2 = new Rectangle();

        r1.insert(23,3);
        r2.insert(7,6);

        r1.calculateArea();
        r2.calculateArea();

    }

}
```

Output :

```
Output

java -cp /tmp/BfTeUXUAZz TestRectangle1
Area = 69
Area = 42
```