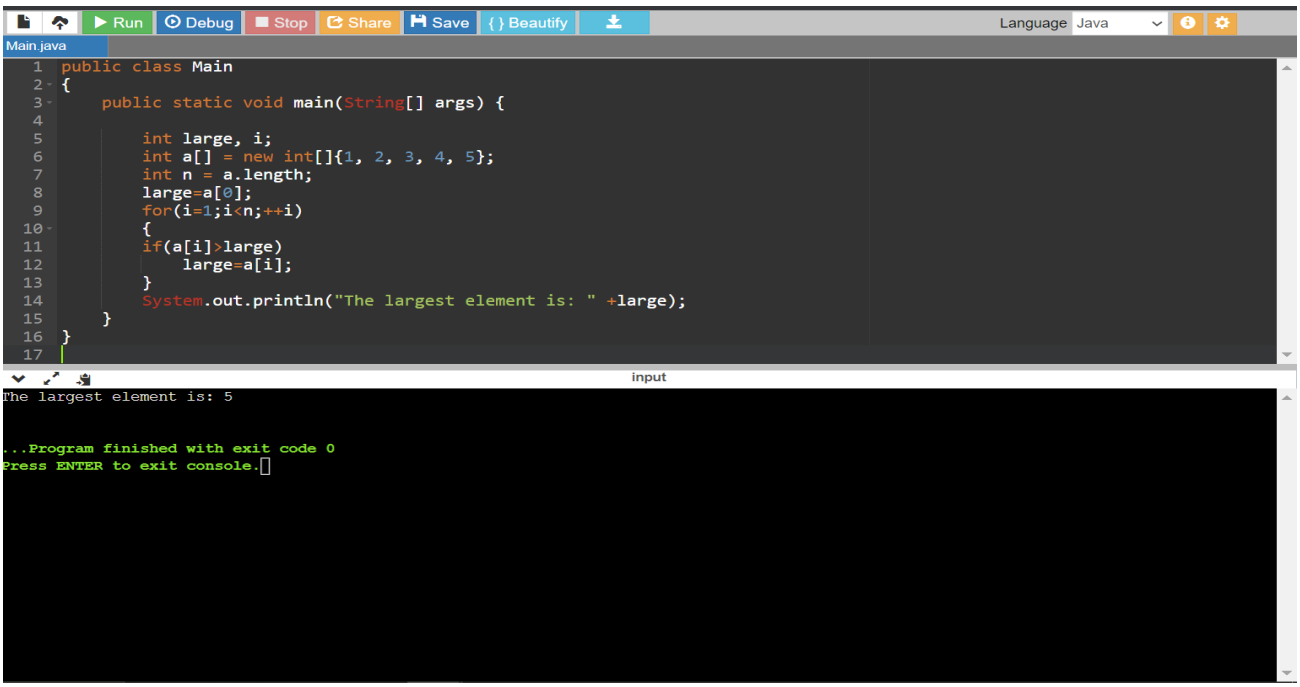
PROGRAM 1

```
public class Main
{
public static void main(String[] args) {

    int large, i;
    int a[] = new int[]{1, 2, 3, 4, 5};
    int n = a.length;
    large=a[0];
    for(i=1;i<n;++i)
    {
    if(a[i]>large)
       large=a[i];
    }
    System.out.println("The largest element is: " +large);
}
}
```



PROGRAM 2

```
import java.util.*;
public class Main {
   public static void main(String args[]) {
      Student s1 = new Student(101, "Student1");
      Student s2 = new Student(102, "Student2");
      Student s3 = new Student(103, "Student3");
      Student s4 = new Student(104, "Student4");
      Student s5 = new Student(105, "Student5");
      s1.setMarks();
      s1.display();

      s2.setMarks();
      s2.display();

      s3.setMarks();
      s3.display();

      s4.setMarks();
      s4.display();

      s5.setMarks();
      s5.display();
   }
}

class Student {
   private int reg_no, total;
```

```
    private String name;
    private int[] marks= new int[5];

    public Student(int reg_no,String name){
      this.reg_no=reg_no;
      this.name=name;
    }

    public void setMarks(){
       Scanner sc = new Scanner (System.in);
       for(int i=0; i<5; i++){
          System.out.print("Enter mark in subject "+(i+1)+": ");

          marks [i] = sc.nextInt();
          total+=marks[i];
      } }
    public void display () {
       System.out.println("Reg_No: "+ reg_no+" Name: "+ name);
      System.out.println("Marks in Subject: ");

      for(int i=0; i<5; i++){
          System.out.println("Subject "+i+": "+ marks[I];
       }
       System.out.println("Total Marks: "+ total);
       System.out.println("Average marks: "+ (total/5));
       System.out.println();
    }
}
```

```
Enter mark in subject 1: 50
Enter mark in subject 2: 40
Enter mark in subject 3: 60
Enter mark in subject 4: 70
Enter mark in subject 5: 80
Reg_No: 101 Name: Student1
Marks in Subject:
Subject 0: 50
Subject 1: 40
Subject 2: 60
Subject 3: 70
Subject 4: 80
Total Marks: 300
Average marks: 60

Enter mark in subject 1: 40
Enter mark in subject 2: 60
Enter mark in subject 3: 70
Enter mark in subject 4: 80
Enter mark in subject 5: 90
Reg_No: 102 Name: Student2
Marks in Subject:
Subject 0: 40
Subject 1: 60
Subject 2: 70
Subject 3: 80
Subject 4: 90
Total Marks: 340
Average marks: 68

Enter mark in subject 1: 60
Enter mark in subject 2: 80
Enter mark in subject 3: 90
Enter mark in subject 4: 70
Enter mark in subject 5: 85
```

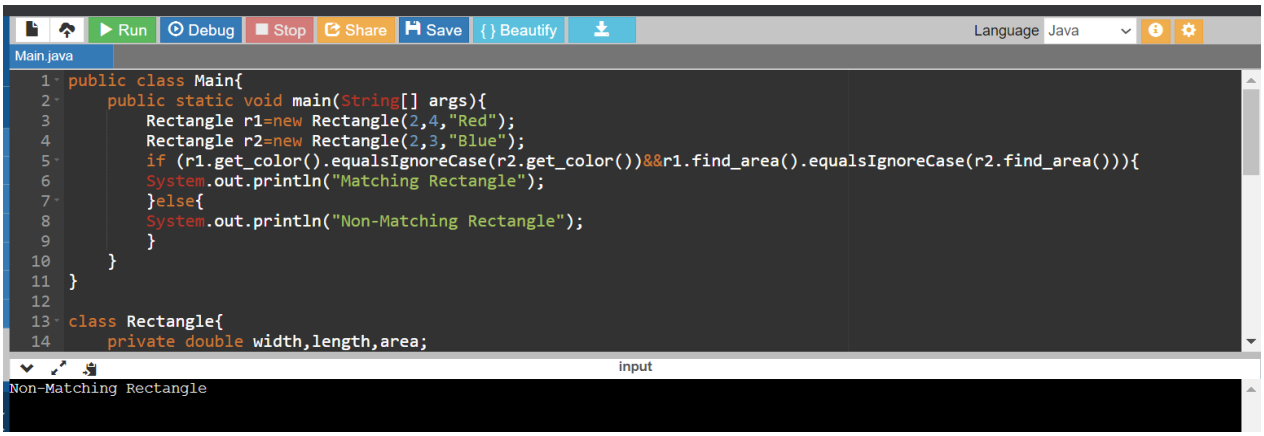
```
Enter mark in subject 1: 60
Enter mark in subject 2: 80
Enter mark in subject 3: 90
Enter mark in subject 4: 70
Enter mark in subject 5: 85
Reg_No: 103 Name: Student3
Marks in Subject:
Subject 0: 60
Subject 1: 80
Subject 2: 90
Subject 3: 70
Subject 4: 85
Total Marks: 385
Average marks: 77

Enter mark in subject 1: 40
Enter mark in subject 2: 80
Enter mark in subject 3: 60
Enter mark in subject 4: 45
Enter mark in subject 5: 56
Reg_No: 104 Name: Student4
Marks in Subject:
Subject 0: 40
Subject 1: 80
Subject 2: 60
Subject 3: 45
Subject 4: 56
Total Marks: 281
Average marks: 56

Enter mark in subject 1: 75
Enter mark in subject 2: 85
Enter mark in subject 3: 86
Enter mark in subject 4: 95
Enter mark in subject 5: 99
```

```
Enter mark in subject 1: 75
Enter mark in subject 2: 85
Enter mark in subject 3: 86
Enter mark in subject 4: 95
Enter mark in subject 5: 99
Reg_No: 105 Name: Student5
Marks in Subject:
Subject 0: 75
Subject 1: 85
Subject 2: 86
Subject 3: 95
Subject 4: 99
Total Marks: 440
Average marks: 88


...Program finished with exit code 0
Press ENTER to exit console.
```

PROGRAM 3

```
public class Main{
   public static void main(String[] args){
      Rectangle r1=new Rectangle(2,4,"Red");
      Rectangle r2=new Rectangle(2,3,"Blue");
      if
(r1.get_color().equalsIgnoreCase(r2.get_color())&&r1.find_area().equalsIgnoreCase(r2.find_area())){
      System.out.println("Matching Rectangle");
      }else{
      System.out.println("Non-Matching Rectangle");
      }
   }
}

class Rectangle{
   private double width,length,area;
   private String color;

   public Rectangle(double width, double length, String color){
      this.width=width;
      this.length=length;
      this.color=color;

   }

   public String get_length(){
      return String.valueOf(length);
   }
```

```
    public String get_width(){
        return String.valueOf(width);
    }

    public String get_color(){
        return color;
    }

    public String find_area(){
        area=length*width;
        return String.valueOf(area);
    }
}
```



Sujeesh Sreebalan 19BCON401