JAVA LAB EXPERIMENT NO: 05

NAME: KUNJ TRIVEDI

CLASS: SE9

BATCH: C

ROLL NO: 38

AIM: Program on method overloading.

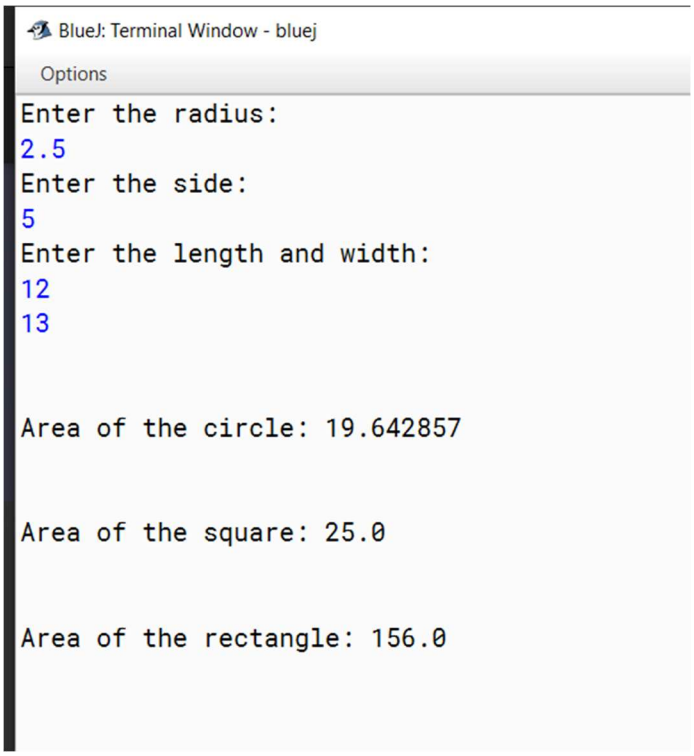
PROBLEM STATEMENT: Write a program to calculate area of various shapes such as rectangle, square and circle using method overloading.

PROGRAM:

```
import java.util.*;
class AREA
{
   void main()  //main function
   {
      Scanner sc=new Scanner(System.in);
      int x,y,z;
      float r;
      System.out.println("Enter the radius: ");
      r=sc.nextFloat();
      area_ c=new area_(r);  //object is created
      System.out.println("Enter the side: ");
      x=sc.nextInt();
      area_ s=new area_(x);
      System.out.println("Enter the length and width: ");
      y=sc.nextInt();
      z=sc.nextInt();
      area_ re=new area_(y,z);
      System.out.println("\n\nArea of the circle: "+c.ar);
      System.out.println("\n\nArea of the square: "+s.ar);
      System.out.println("\n\nArea of the rectangle: "+re.ar);
   }
}
class area_  //class with the calculation functions
{
   float ar;
   area_(float r)  //function to calculate area of circle
   {
      ar=r*r*22/7;
   }
   area_(int x)  //functionto calculate area of square
   {
      ar=x*x;
   }
   area_(int x,int y)   //function to calculate area to rectangle
   {
```

```
      ar=x*y;
   }
}
```

OUTPUT:


BlueJ: Terminal Window - bluej
Options
Enter the radius:
2.5
Enter the side:
5
Enter the length and width:
12
13
Area of the circle: 19.642857
Area of the square: 25.0
Area of the rectangle: 156.0