Code:

```java
import java.util.Scanner;
import static java.lang.Math.*;
class Shape
{
  public String shape;
  Shape()
  {
    shape = null;
  }
  Shape(String shape)
  {
    this.shape = shape.toLowerCase();
  }
  double area(double dimension1, double dimension2, double dimension3)
  {
    if(shape.equals("triangle"))
    {
      double s = (dimension1 + dimension2 + dimension3) / 2;
      double area = sqrt(s * (s - dimension1) * (s - dimension2) * (s - dimension3));
      return area;
    }
    System.out.println("Cannot calculate Area for such Shape");
    return 0;
  }
  double area(double dimension1)
  {
    double result;
    switch(shape)
    {
      case "circle":
        result = PI * dimension1 * dimension1;
        break;
      case "square":
        result = dimension1 * dimension1;
        break;
      case "triangle":
        result = area(dimension1, dimension1, dimension1);
        break;
      case "rectangle":
        result = area(dimension1, dimension1);
      default:
        System.out.println("Your shape isn't present in the list of shapes");
        result = 0;
    }
    return result;
```

```
  }
  double area(double dimension1, double dimension2)
  {
    return dimension1 * dimension2;
  }
}
class Overloading
{
  public static void main(String args[])
  {
    Shape shape1 = new Shape("triangle");
    Shape shape2 = new Shape("square");
    System.out.println("Area of Triangle with side 10, 11 and 10: " + shape1.area(10,
    System.out.println("Area of Square with side 10: " + shape2.area(10));
    shape2.shape = "circle";
    System.out.println("Area of Circle with side 10: " + shape2.area(10));
    shape2.shape = "triangle";
    System.out.println("Area of Equilateral Triangle with side 10: " +shape2.area(10))
  }
}
```

Output:

```
Area of Triangle with side 10, 11 and 10: 45.934055993347684
Area of Square with side 10: 100.0
Area of Circle with side 10: 314.1592653589793
Area of Equilateral Triangle with side 10: 43.30127018922193
```