```java
import java.util.*;

public class App {
    static Scanner scanner = new Scanner(System.in);
    public static void main(String[] args) throws Exception {
        System.out.print("Input 3 sides of the triangle: ");
        String sidesStr = scanner.nextLine();
        System.out.print("The color is: ");
        String color = scanner.nextLine();
        System.out.print("The triangle is filled (y/n): ");
        String filledStr = scanner.nextLine();


        System.out.println("--------------------------");


        String[] sidesLst = sidesStr.split(" ");
        double sideA = Integer.parseInt(sidesLst[0]);
        double sideB = Integer.parseInt(sidesLst[1]);
        double sideC = Integer.parseInt(sidesLst[2]);
        boolean filled = getBoolFilled(filledStr);


        GeometricObject triangle = new Triangle(sideA,sideB,sideC,color,filled);
        System.out.println(triangle);


    }


    public static boolean getBoolFilled(String filledStr){
        if(filledStr.compareTo("y")==0){
            return true;
```

```java
        }
        else{
            return false;
        }
    }
}
```

```java
import java.util.Date;

abstract class GeometricObject{
    private String color;
    private boolean filled;
    private Date dateCreated;

    protected GeometricObject(){
        this.color = "Black";
        this.filled = false;
        this.dateCreated = new Date();
    }

    protected GeometricObject(String color,boolean filled){
        this.color = color;
        this.filled = filled;
        this.dateCreated = new Date();
    }

    //setter
```

```java
public void setColor(String color){

    this.color = color;

}


public void setFilled(){

    this.filled = filled;

}



//getter


public String getColor(){

    return color;

}


public boolean isFilled(){

    return filled;

}


public Date getDate(){

    return dateCreated;

}


//abstract method
abstract public double getArea();
abstract public double getPerimeter();


@Override
```

```java
    public String toString(){

        return "\nColor: "+color+"\nFilled: "+filled;

    }

}
```

```java
class Triangle extends GeometricObject{

    private double sideA,sideB,sideC;

    private double perimeter,area;


    public Triangle(){

        this.sideA = 1;

        this.sideB = 1;

        this.sideC = 1;

    }


    public Triangle(double sideA,double sideB,double sideC,String color,boolean filled){

        super(color,filled);

        this.sideA = sideA;

        this.sideB = sideB;

        this.sideC = sideC;

    }


    @Override

    public double getArea(){

        double s = (sideA + sideB + sideC) / 2;

        return Math.sqrt(s * (s - sideA) * (s - sideB) * (s - sideC));

    }


    @Override

    public double getPerimeter(){

        return sideA + sideB + sideC;

    }


    public String toString(){
```

```java
        return "Triangle: side1 = " + sideA + " side2 = " + sideB + " side3 = " + sideC +
        "\nArea: "+String.format("%.2f",getArea()) +
        "\nPerimeter: " + String.format("%.2f",getPerimeter()) +
        super.toString();
    }
}
```