

```

/**
 * Write a description of class FigureDriver here.
 *
 * @author (your name)
 * @version (a version number or a date)
 */
import gpdraw.*;
public class FigureDriver
{
    public static void main( String args[] )
    {
        char choice;
        int xCoord, yCoord;
        double rad;
        double width, height;
        DrawingTool pen = new DrawingTool( new SketchPad(300, 300) );
        do
        {
            System.out.print("\n" + "Enter" + "\n\t" +
                " c for Circle " + "\n\t" +
                " r for Rectangle " + "\n\t" +
                " q to Quit     ==> ");
            choice = SavitchIn.readLineNonwhiteChar();
            switch( choice )
            {
                case 'c': case 'C':
                    System.out.print("\n" + "Enter the x-coordinate of the center...");
                    xCoord = SavitchIn.readLineInt();
                    System.out.print("\n" + "Enter the y-coordinate of the center...");
                    yCoord = SavitchIn.readLineInt();
                    System.out.print("\n" + "Enter the radius of the circle...");
                    rad = SavitchIn.readLineDouble();
                    Circle chubby = new Circle( xCoord, yCoord, rad, pen );
                    System.out.print("\n" + "The circumference of the circle is ");
                    System.out.printf("%-10.2f", chubby.calcCircumference());
                    System.out.print(" and the area is ");
                    System.out.printf("%-10.2f", chubby.calcArea());
                    chubby.draw();
                    System.out.println();
                    break;

                case 'r': case 'R':
                    System.out.print("\n" + "Enter the x-coordinate of the center...");
                    xCoord = SavitchIn.readLineInt();
                    System.out.print("\n" + "Enter the y-coordinate of the center...");
                    yCoord = SavitchIn.readLineInt();
                    System.out.print("\n" + "Enter the width of the rectangle...");
                    width = SavitchIn.readLineDouble();
                    System.out.print("\n" + "Enter the height of the rectangle...");
                    height = SavitchIn.readLineDouble();
                    Rectangle sharpy = new Rectangle( xCoord, yCoord, width, height, pen );
                    System.out.print("\n" + "The perimeter of the rectangle is ");
                    System.out.printf("%-10.2f", sharpy.calcPerimeter());
                    System.out.print(" and the area is ");
                    System.out.printf("%-10.2f", sharpy.calcArea());
                    sharpy.draw();
                    System.out.println();
                    break;

                default:
                    break;
            }
        }while( choice != 'q' );
    }
}

```

SAMPLE OUTPUT

Enter

c for Circle
r for Rectangle
q to Quit ==> c

Enter the x-coordinate of the center...-20

Enter the y-coordinate of the center...-20

Enter the radius of the circle...30

The circumference of the circle is 188.40 and the area is 2826.00

Enter

c for Circle
r for Rectangle
q to Quit ==> R

Enter the x-coordinate of the center...30

Enter the y-coordinate of the center...30

Enter the width of the rectangle...40

Enter the height of the rectangle...10

The perimeter of the rectangle is 100.00 and the area is 400.00

Enter

c for Circle
r for Rectangle
q to Quit ==> q

Note: DrawingTool figures not included with this sample output.