Worksheet 7

Method Overloading

Create three overloaded static methods called, shapeArea (...) which can calculate the area of a rectangle, circle and triangle. Use Heron's formula along with the Distance formula to determine the area of the triangle.

```
public static void main(String[] args) {
    double rectangleArea = shapeArea(4.0, 6.0);
    double circleArea = shapeArea(3.0);
    double triangleArea = shapeArea(0.0, 0.0, 0.0, 1.0, 1.0, 0.0);

    System.out.printf("Area of Rectangle: %.2f\n", rectangleArea);
    System.out.printf("Area of Circle: %.2f\n", circleArea);
    System.out.printf("Area of Triangle: %.2f\n", triangleArea);
}
```

Figure 1 - The Main Program

