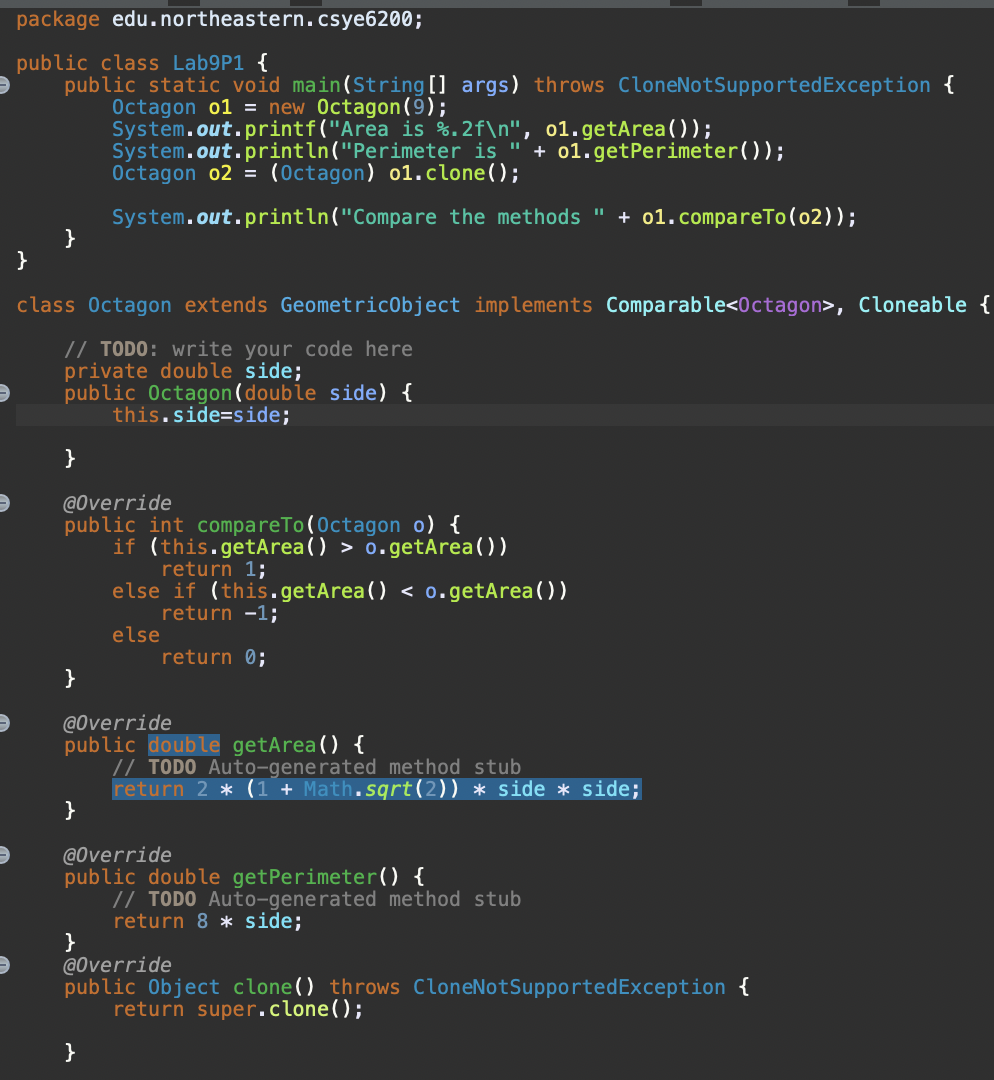
**Problem description:**

a short description of the issue you are solvingWrite a class named Octagon that extends GeometricObject and implements the Comparable andCloneable interfaces. Assume that all eight sides of the octagon are of equal length. The area can becomputed using the following formula:= (2 + 4/√2) ∗ ∗ Write a test program that creates an Octagon object with side value 9 and displays its area and perimeter. Create a new object using the clone() method and compare the two objects using the compareTo() method.

• Analysis:  
**What design/solution/algorithm you use to solve the problem?**

I use inheritance, overloading, solved the problem.  
**What are the difficulties you encountered?**

I have not encountered problems.  
**What did you learn from this assignment?**  
I became more familiar with inheritance and overloading

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