Write ONE application program by using the following requirements:

1. Inheritance
   1. At least one superclass or abstract superclass: this class needs to have data members, accessor, mutator, and toString methods (20 points)
   2. At least one subclass: this class also needs to have data members, accessor, mutator, and toString methods (20 points)
   3. At least one interface: this interface needs to have at least two abstract methods (10 points)
   4. At least one method overloading (10 points)
   5. At least one method overriding (10 points)
   6. At least one static method (10 points)
   7. Polymorphism: you need to have at least one superclass reference to reference objects of a subclass (10 points)
   8. At least one aggregation in a class (20 points)
2. Within your project, PLEASE include comments at the place where you use the above items. I will deduct the points if I cannot find the above items within your project.
3. Use a main() method to test the above items.