1. **Most Challenging Part**: Handling the geometry of both the circle and the cylinder together while ensuring a clean inheritance structure was the most challenging.
2. **Problems Encountered and Solutions**: Initially, managing the set and get methods between base and derived classes was tricky, but using protected member variables in the **CircleType** and **PointType** classes helped streamline inheritance and data encapsulation.
3. **What I Learned**: This task reinforced the importance of object-oriented principles such as inheritance and encapsulation. It also improved my understanding of how to extend base class functionality in a derived class and deal with geometric formulas.