

1 Polymorphism III

Implement a shape hierarchy with **Shape** as an abstract base class that has the pure virtual methods *draw* and *resize*. Derived classes should include **Point**, **Line**, **Circle**, **Triangle** and **Rectangle**. Each derived class implements the draw method and resize method. Methods are;

- Draw method to draw an appropriate representation of an object in the class
- Resize method to change an object initial size.

NOTE: All shapes are represented on the 2-dim coordinate system.