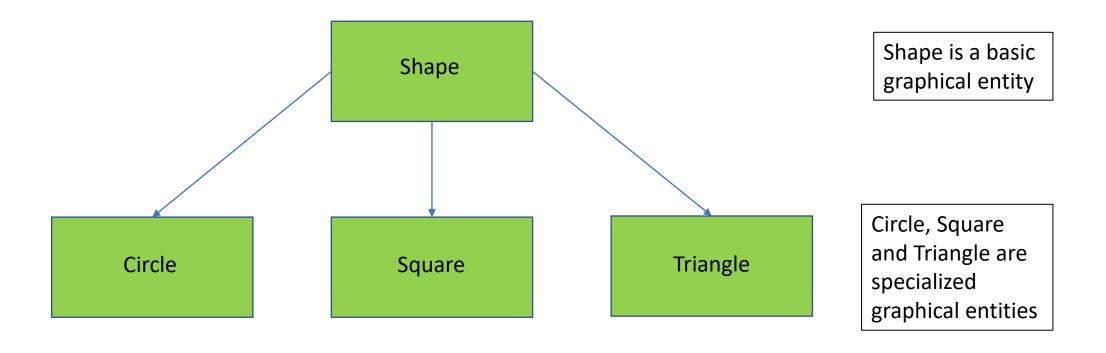
## Classes and Inheritance Solutions

## Class Hierarchy

- What is meant by a class inheritance hierarchy?
  - A class inheritance hierarchy is used to model a group of related concepts
  - The "base class" is at the top of the hierarchy. This is the most general or most basic example of the group
- Give an example of a simple class hierarchy and draw a diagram of it
  - Drawable shapes (circle, triangle, square, etc)
  - The base class is a generic drawable shape

## Class Hierarchies

Related classes are organised in a hierarchy



## **Derived Classes**

- What is meant by the terms "base class" and "derived class"?
  - Base class defined above
  - A derived class is a more specialized version of the base class, or has enhanced functionality
- Give alternate names for the terms "base class" and "derived class"
  - Base class parent class
  - Derived class child class or subclass