```
// William Kelley
// PollyMoTest.cs
// ITE365 - Lab 10(Pollymorphism Main)
using System;
using System.Collections.Generic;
namespace PollyMoTestApp
    class MainClass
        public static void Main(string[] args)
            // Polymorphism at work #1: a Rectangle, Triangle and Circle
            // can all be used whereever a Shape is expected. No cast is
            // required because an implicit conversion exists from a derived
            // class to its base class.
            var shapes = new List<Shape>
                new Rectangle(),
                new Triangle(),
                new Circle()
            } ;
            // Polymorphism at work #2: the virtual method Draw is
            // invoked on each of the derived classes, not the base class.
            foreach (Shape s in shapes)
            {
                 s.Draw();
            // Keep the console open in debug mode.
            Console.WriteLine("Press any key to exit.");
            Console.ReadKey();
        }
    }
}
// William Kelley
// Shape.cs
// ITE365 - Lab 10(Pollymorphism Shape File)
using System;
namespace PollyMoTestApp
{
    public class Shape
        public int X { get; private set; }
        public int Y { get; private set; }
public int Height { get; set; }
        public int Width { get; set; }
        public virtual void Draw()
            Console.WriteLine("Performing base class drawing tasks");
    }
    class Circle : Shape
```

```
{
        public override void Draw()
             // Code to draw a circle...
Console.WriteLine("Drawing a circle");
             base.Draw();
    class Rectangle : Shape
        public override void Draw()
             // Code to draw a rectangle...
             Console.WriteLine("Drawing a rectangle");
             base.Draw();
    class Triangle : Shape
        public override void Draw()
             // Code to draw a triangle...
             Console.WriteLine("Drawing a triangle");
             base.Draw();
         }
    }
}
```

Drawing a rectangle
Performing base class drawing tasks
Drawing a triangle
Performing base class drawing tasks
Drawing a circle
Performing base class drawing tasks
Press any key to exit.