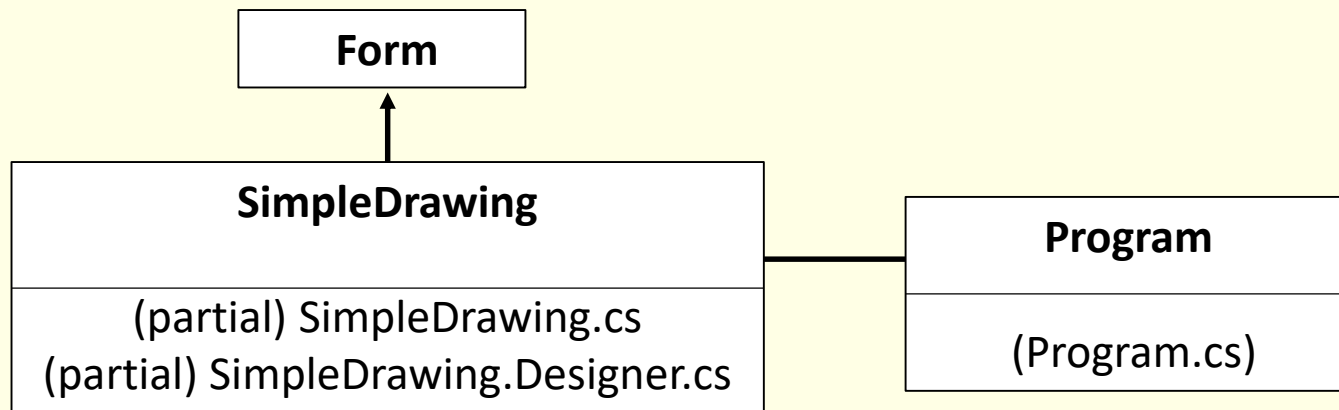
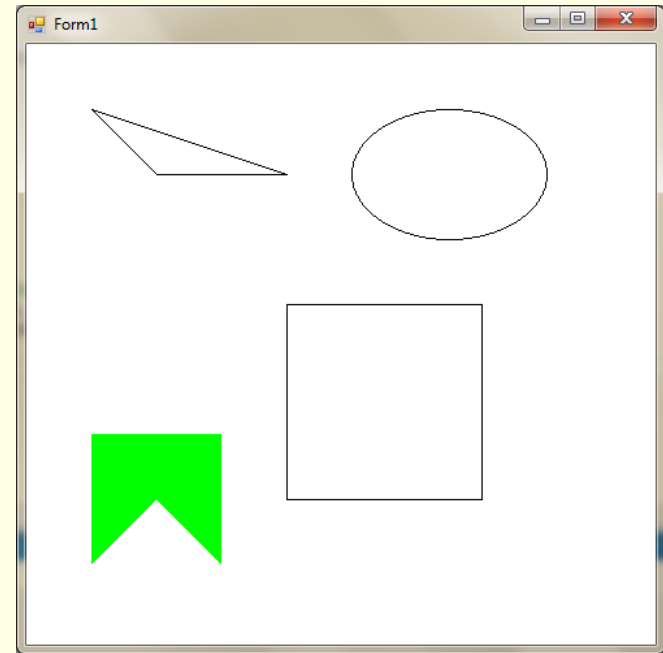


# Advance 2D Drawing

SimpleDrawing.cs :-  
Uses **System.Drawing** library



## Program.cs

- ***Creates an object:***

```
Application.Run(new SimpleDrawing());
```

## SimpleDrawing.cs

- ***Constructor:***

Defines window style, size and colour

- ***OnPaint:***

- Creates a graphics object g
- Creates a pen and brush to draw things using HC
- Draws triangle, square, ellipse and filled polygon
- Colours predefined or by RGB
- OnPaint called automatically

## **System.Drawing**

- access to libraries of Graphics Device Interface
- (GDI/GDI+)

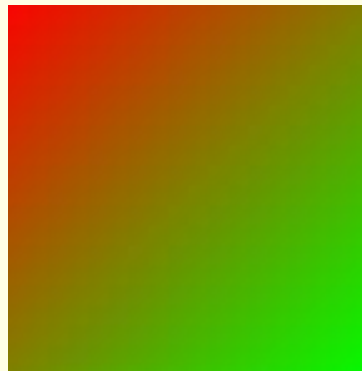
## **System.Drawing.Drawing2D**

- access to more advanced 2D tools
- e.g. create and fill a rectangle with  
a gradient colour change

```
// Create a Rectangle object and draw it  
Rectangle r2 = new Rectangle(150, 150, 100, 100);  
g.DrawRectangle(blackPen, r2);
```



```
// Create a diagonal linear gradient from start to  
// end points of pure colour  
LinearGradientBrush gradient = new LinearGradientBrush(  
    new Point( 150, 150 ),  
    new Point(250, 250),  
    Color.FromArgb(255, 255, 0, 0),  
    Color.FromArgb(255, 0, 255, 0) ); // red-to-green  
  
g.FillRectangle(gradient, r2);
```





- Work on the practical exercises
- Review the assignment