

Program EggApplet.java

```
import java.applet.Applet;
import java.awt.Graphics;
import java.awt.Graphics2D;                      // JDK 2.0
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.awt.geom.Ellipse2D;                  // JDK 2.0

public class EggApplet extends Applet
{
    public EggApplet()    // Default Applet Constructor
    {
        // egg is an instance variable ( a JDK 2.0 object )
        egg = new Ellipse2D.Double(0, 0, EGG_WIDTH, EGG_HEIGHT);

        // add mouse click listener
        MouseListener listener = new MouseClickListener();
        this.addMouseListener(listener);
    }
}
```

```
// Program EggApplet.java (continued)
```

```
public void paint(Graphics g)
{
    Graphics2D g2 = (Graphics2D)g;           // JDK 2.0
    if ( egg != null ) g2.draw(egg);         // JDK 2.0
}
```

```
// instance variables for the Applet
private Ellipse2D.Double egg;               // JDK 2.0
private static final double EGG_WIDTH = 30.0;
private static final double EGG_HEIGHT = 50.0;
```

```
// Program EggApplet.java (concluded)

// inner class definition
private class MouseClickListener extends MouseAdapter
{
    public void mouseClicked(MouseEvent event)
    {
        int mouseX = event.getX();
        int mouseY = event.getY();
        // now move the ellipse to (mouseX, mouseY) setFrame is JDK 2.0
        egg.setFrame(mouseX - EGG_WIDTH / 2,
            mouseY - EGG_HEIGHT / 2, EGG_WIDTH, EGG_HEIGHT);
        repaint();
    } // end of mouseClicked()
} // end of MouseClickListener
} // end of EggApplet.java
```