

Practical 8: Write a Java Program to create Lamp using applet.

LampApplet.java File:

```
import java.applet.Applet;
import java.awt.*;
import java.awt.event.*;

public class LampApplet extends Applet implements ActionListener {
    boolean isOn = false;
    Button onBtn, offBtn;

    public void init() {
        onBtn = new Button("Turn ON");
        offBtn = new Button("Turn OFF");

        add(onBtn);
        add(offBtn);

        onBtn.addActionListener(this);
        offBtn.addActionListener(this);
    }

    public void actionPerformed(ActionEvent e) {
        if (e.getSource() == onBtn) {
            isOn = true;
        } else if (e.getSource() == offBtn) {
            isOn = false;
        }
        repaint();
    }

    public void paint(Graphics g) {
        g.setColor(Color.BLACK);
        g.drawOval(80, 80, 100, 150);

        if (isOn)
            g.setColor(Color.YELLOW);
        else
            g.setColor(Color.GRAY);

        g.fillOval(100, 120, 60, 80);
    }
}
```

LampApplet.html File:

```
<!DOCTYPE html>
<html>
<head>
    <title>Lamp Applet</title>
</head>
<body>
    <h2>Interactive Lamp Applet</h2>
    <applet code="LampApplet.class" width="300" height="200">
        Your browser does not support Java Applets.
    </applet>
</body>
</html>
```

Output:

```
C:\Windows\System32\cmd.e X + v
E:\n_nagpure\n_nagpure\src>"C:\Program Files\Java\jdk1.7.0_80\bin\javac.exe" LampApplet.java
E:\n_nagpure\n_nagpure\src>"C:\Program Files\Java\jdk1.7.0_80\bin\AppletViewer.exe" LampApplet.html
```

