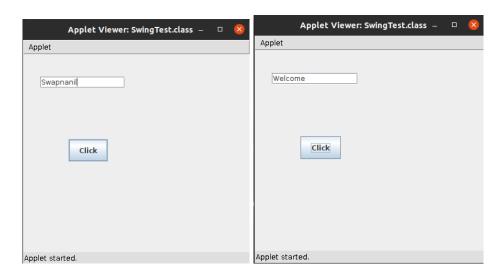
Swapnanil Dutta Roll: 12

### 1. Code:

```
import javax.swing.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
/* <applet code="SwingTest.class" width="400" height="350"></applet> */
public class SwingTest extends JApplet implements ActionListener {
    JButton b;
    JTextField tf;

    @Override
    public void init() {
        tf = new JTextField();
        tf.setBounds(30, 40, 150, 20);
        b = new JButton("Click");
        b.setBounds(80, 150, 70, 40);
        add(b);
        add(tf);
        b.addActionListener(this);
        setLayout(null);
    }
    @Override
    public void actionPerformed(ActionEvent e) {
        tf.setText("Welcome");
    }
}
```



### Code:

```
import java.awt.Color;
import java.awt.Graphics;
import java.util.Calendar;
import java.util.Date;
import java.util.GregorianCalendar;
import javax.swing.*;
public class DigitalClock extends JApplet implements Runnable {
  String str = "";
  Thread t;
  boolean stopFlag = false;
       for (;;) {
               repaint();
               Thread.sleep(150);
               if (stopFlag)
           } catch (InterruptedException e) {
               System.out.println(e);
       setBackground(Color.gray);
      setForeground(Color.green);
       t = new Thread(this);
      t.start();
```

```
public void stop() {
    stopFlag = true;
    t = null;
}

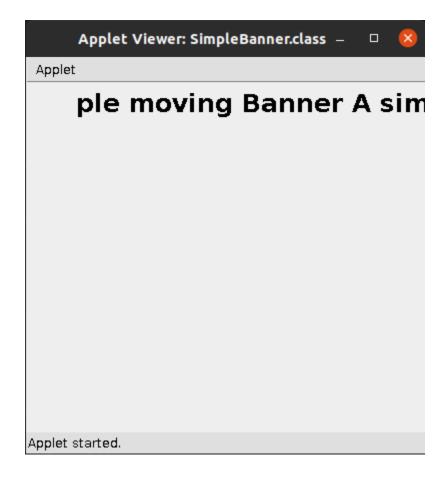
public void destroy() {

public void paint(Graphics g) {
    super.paint(g);
    Calendar cal = new GregorianCalendar();
    String hh = String.valueOf(cal.get(Calendar.HOUR));
    String mm = String.valueOf(cal.get(Calendar.MINUTE));
    String ss = String.valueOf(cal.get(Calendar.SECOND));
    str = hh + " : " + mm + " : " + ss;
        g.drawString(str, 50, 70);
}
```



#### Code:

```
import java.applet.Applet;
import java.awt.Color;
import java.awt.Font;
import java.awt.Graphics;
import javax.swing.*;
public class SimpleBanner extends JApplet implements Runnable {
  String m = "A simple moving Banner";
  Thread t;
  boolean stopFlag = false;
       setBackground(Color.gray);
      setForeground(Color.red);
       t = new Thread(this);
      t.start();
  public void stop() {
      stopFlag = true;
       t = null;
  public void paint(Graphics g) {
       super.paint(g);
      g.setFont(f);
      char ch = m.charAt(0);
      m = m.substring(1, m.length());
      g.drawString(m, 50, 30);
```



### Code:

```
import javax.swing.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class SwingFrame extends JFrame implements ActionListener{
  JFrame f;
  JButton b;
  JTextField t;
      f=new JFrame();
      b=new JButton("Click Me");
      b.setBounds(80, 150, 70, 40);
      t=new JTextField();
      t.setBounds(30, 40, 150, 20);
      b.addActionListener(this);
      f.add(b);
      f.add(t);
      f.setVisible(true);
  public void actionPerformed(ActionEvent e) {
  public static void main(String[] args)
      SwingFrame ob=new SwingFrame();
      ob.create();
```

