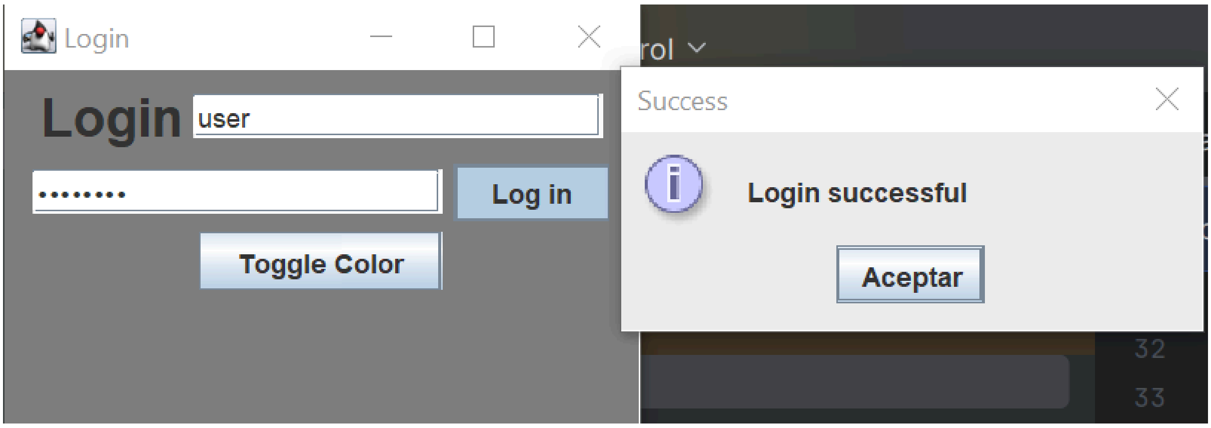
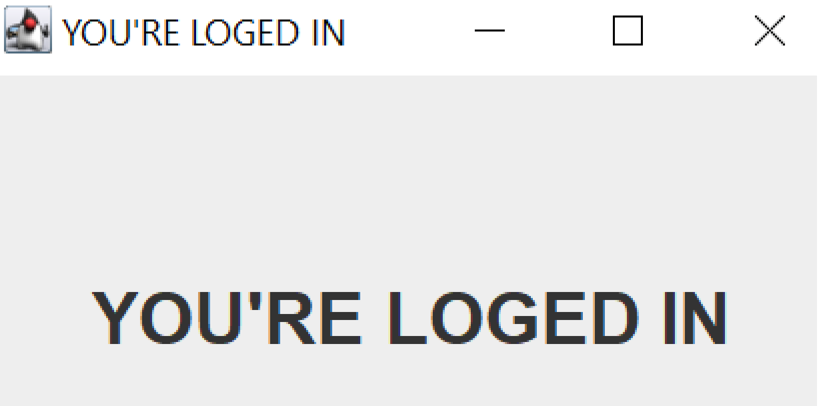


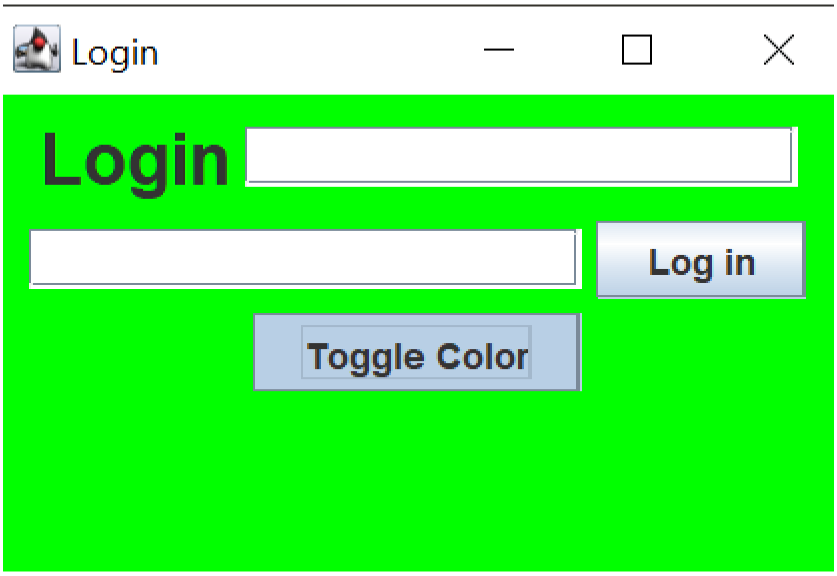
user

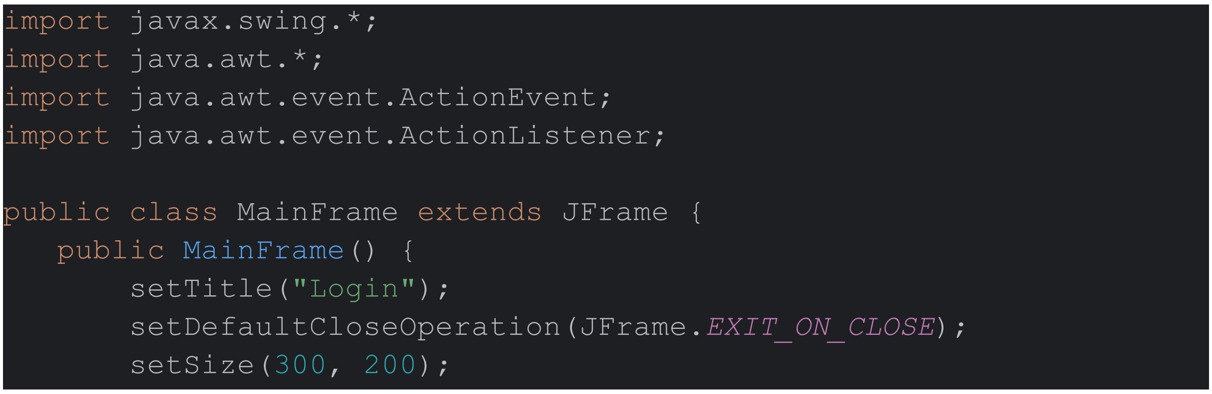
••••••••

Login successful



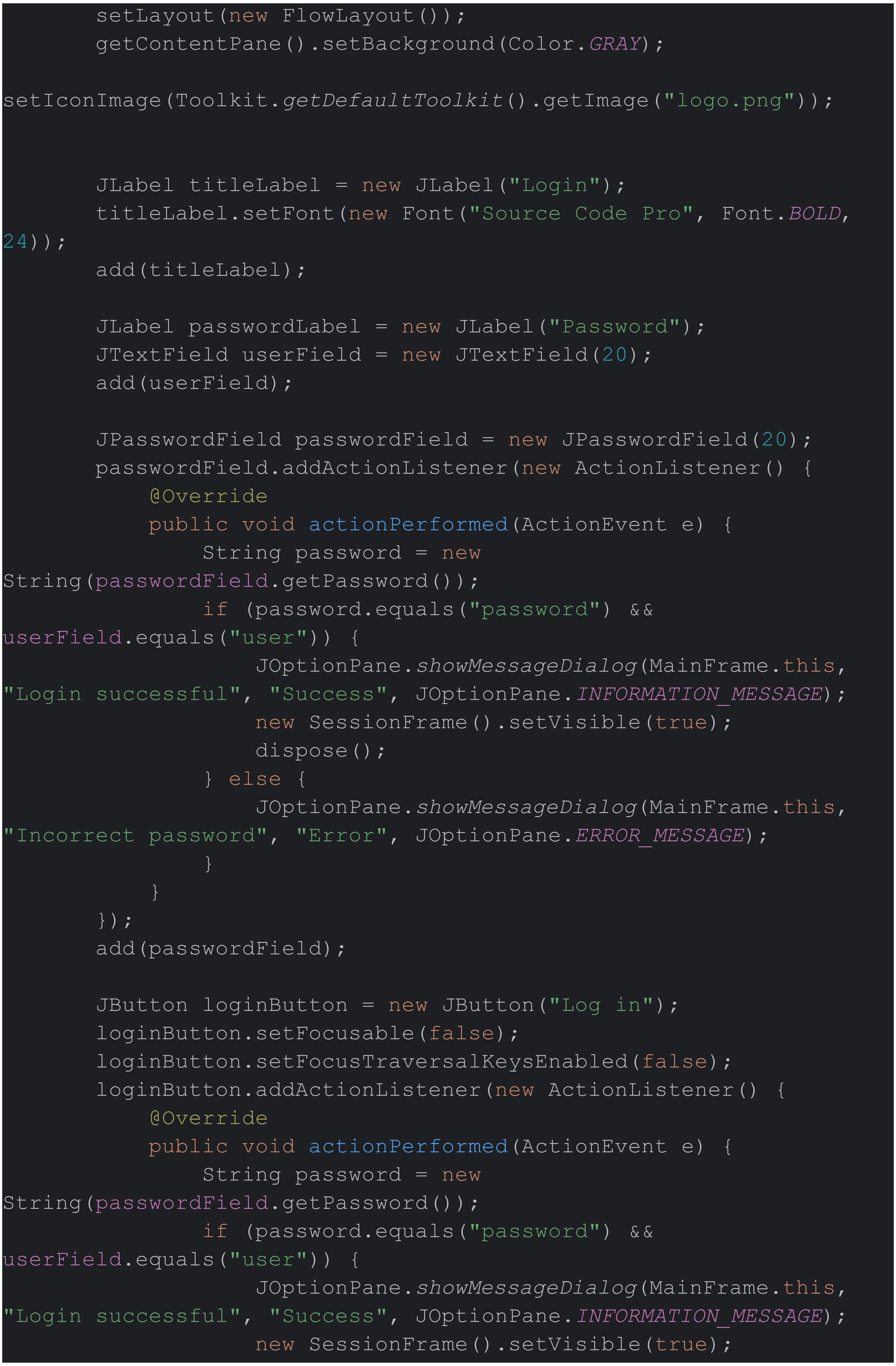
YOU'RE LOGED IN





```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class MainFrame extends JFrame {
   public MainFrame() {
       setTitle("Login");
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setSize(300, 200);
```



```
        setLayout(new FlowLayout());
        getContentPane().setBackground(Color.GRAY);
        
setIconImage(Toolkit.getDefaultToolkit().getImage("logo.png"));


        JLabel titleLabel = new JLabel("Login");
        titleLabel.setFont(new Font("Source Code Pro", Font.BOLD,
24));
        add(titleLabel);

        JLabel passwordLabel = new JLabel("Password");
        JTextField userField = new JTextField(20);
        add(userField);

        JPasswordField passwordField = new JPasswordField(20);
        passwordField.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                String password = new
String(passwordField.getPassword());
                if (password.equals("password") &&
userField.equals("user")) {
                    JOptionPane.showMessageDialog(MainFrame.this,
"Login successful", "Success", JOptionPane.INFORMATION_MESSAGE);
                    new SessionFrame().setVisible(true);
                    dispose();
                } else {
                    JOptionPane.showMessageDialog(MainFrame.this,
"Incorrect password", "Error", JOptionPane.ERROR_MESSAGE);
                }
            }
        });
        add(passwordField);

        JButton loginButton = new JButton("Log in");
        loginButton.setFocusable(false);
        loginButton.setFocusTraversalKeysEnabled(false);
        loginButton.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                String password = new
String(passwordField.getPassword());
                if (password.equals("password") &&
userField.equals("user")) {
                    JOptionPane.showMessageDialog(MainFrame.this,
"Login successful", "Success", JOptionPane.INFORMATION_MESSAGE);
                    new SessionFrame().setVisible(true);
                    dispose();
                } else {
                    JOptionPane.showMessageDialog(MainFrame.this, "Incorrect password", "Error", JOptionPane.ERROR_MESSAGE);
                }
            }
        });
        add(loginButton);

        JToggleButton toggleButton = new JToggleButton("Toggle Color");
        toggleButton.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                if (toggleButton.isSelected()) {
                    getContentPane().setBackground(Color.GREEN);
                } else {
                    getContentPane().setBackground(Color.BLUE);
                }
            }
        });
        add(toggleButton);

        setVisible(true);
    }

    @Override
    public Image getIconImage() {
        return Toolkit.getDefaultToolkit().getImage(ClassLoader.getSystemResource("img/monkey.png"));
    }

    public static void main(String[] args) {
        new MainFrame();
    }
}

class SessionFrame extends JFrame {
    public SessionFrame() {
        setTitle("YOU'RE LOGED IN");
        setSize(300, 200);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setLocationRelativeTo(null);
        setVisible(true);

        JLabel messageLabel = new JLabel("YOU'RE LOGED IN");
        messageLabel.setFont(new Font("Arial", Font.BOLD, 24));
        messageLabel.setHorizontalAlignment(JLabel.CENTER);
        add(messageLabel, BorderLayout.CENTER);

    }
}
```

Ejercicio 8

```
import javax.swing.*;
import java.awt.*;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.Date;

public class AgeCalculator extends JFrame {
    private JFormattedTextField dateOfBirthField;
    private JLabel ageLabel;

    public AgeCalculator() {
        setTitle("Age Calculator");
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setSize(300, 150);
        setLayout(new FlowLayout());

        JLabel dateOfBirthLabel = new JLabel("Date of Birth:");
        add(dateOfBirthLabel);

        // Creamos el JFormattedTextField con un formatter específico para el formato de fecha
deseado (dd-mm-yyyy)
        SimpleDateFormat dateFormat = new SimpleDateFormat("dd-MM-yyyy");
        dateOfBirthField = new JFormattedTextField(dateFormat);
        dateOfBirthField.setColumns(10);
        add(dateOfBirthField);

        JButton calculateButton = new JButton("Calculate Age");
        calculateButton.addActionListener(e -> calculateAge());
        add(calculateButton);

        ageLabel = new JLabel("Your age will appear here");
        add(ageLabel);

        setVisible(true);
    }

    private void calculateAge() {
        try {
            // Obtenemos la fecha de nacimiento introducida por el usuario
            Date dateOfBirth = ((SimpleDateFormat)
dateOfBirthField.getFormatter().getFormat()).parse(dateOfBirthField.getText());

            // Calculamos la edad en años
            Calendar dob = Calendar.getInstance();
            dob.setTime(dateOfBirth);
            Calendar today = Calendar.getInstance();
            int age = today.get(Calendar.YEAR) - dob.get(Calendar.YEAR);
            if (today.get(Calendar.DAY_OF_YEAR) < dob.get(Calendar.DAY_OF_YEAR)) {
                age--;
            }

            // Mostramos la edad en el JLabel
            ageLabel.setText("Your age is: " + age + " years");
        } catch (ParseException ex) {
            JOptionPane.showMessageDialog(this, "Invalid date format. Please enter the date in
dd-MM-yyyy format.", "Error", JOptionPane.ERROR_MESSAGE);
        }
    }

    public static void main(String[] args) {
        new AgeCalculator();
    }
}
```

Ejercicio 9

```
import javax.swing.*;
import javax.swing.event.ChangeEvent;
import javax.swing.event.ChangeListener;
import java.awt.*;

public class SliderExample extends JFrame {
    private JSlider slider;
    private JTextField textField;

    public SliderExample() {
        setTitle("Slider Example");
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setSize(300, 150);
        setLayout(new FlowLayout());

        slider = new JSlider(JSlider.HORIZONTAL, 0, 100, 50);
        slider.setMinorTickSpacing(20);
        slider.setPaintTicks(true);
        slider.setPaintLabels(true);
        add(slider);

        textField = new JTextField(10);
        textField.setEditable(false);
        add(textField);

        slider.addChangeListener(new ChangeListener() {
            @Override
            public void stateChanged(ChangeEvent e) {
                int value = slider.getValue();
                textField.setText(Integer.toString(value));
            }
        });

        setVisible(true);
    }

    public static void main(String[] args) {
        new SliderExample();
    }
}
```

Ejercicio 9

```
import javax.swing.*;

public class MainFrame extends JFrame {

    public MainFrame() {
        setTitle("Exemple de finestra amb confirmació");
        setSize(300, 200);
        setDefaultCloseOperation(DO_NOTHING_ON_CLOSE);

        addWindowListener(new java.awt.event.WindowAdapter() {
            @Override
            public void windowClosing(java.awt.event.WindowEvent windowEvent) {
                confirmació();
            }
        });

        setVisible(true);
    }

    private void confirmació() {
        int option = JOptionPane.showConfirmDialog(this, "Esteu segur que voleu tancar la finestra?", "Confirmació de tancament", JOptionPane.OK_CANCEL_OPTION);
        if (option == JOptionPane.OK_OPTION) {
            System.exit(0);
        }
    }

    public static void main(String[] args) {
        new MainFrame();
    }
}
```