import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

public class UserAuthentication {

public static void main(String[] args) {

// Create the frame

JFrame frame = new JFrame("User Authentication");

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

frame.setSize(300, 200);

frame.setLayout(new FlowLayout());

// Create components for username and password

JLabel userLabel = new JLabel("Username:");

JTextField userText = new JTextField(15);

JLabel passLabel = new JLabel("Password:");

JPasswordField passField = new JPasswordField(15);

// Create a button to submit the login credentials

JButton loginButton = new JButton("Login");

// Create a label to display the result

JLabel resultLabel = new JLabel("");

// Action listener for the login button

loginButton.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

// Get the username and password entered by the user

String username = userText.getText();

char[] password = passField.getPassword();

// Predefined correct credentials

String correctUsername = "admin";

String correctPassword = "password123";

// Convert password char[] to String for comparison

String enteredPassword = new String(password);

// Check if the entered credentials are correct

if (username.equals(correctUsername) && enteredPassword.equals(correctPassword)) {

resultLabel.setText("Login Successful!");

resultLabel.setForeground(Color.GREEN);

} else {

resultLabel.setText("Invalid Username or Password");

resultLabel.setForeground(Color.RED);

}

}

});

// Add components to the frame

frame.add(userLabel);

frame.add(userText);

frame.add(passLabel);

frame.add(passField);

frame.add(loginButton);

frame.add(resultLabel);

// Make the frame visible

frame.setVisible(true);

}

}