**1. Program to design login form for users using Swings.**

**→**

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

class LoginFrame extends JFrame implements ActionListener

{

Container container = getContentPane();

JLabel userLabel = new JLabel("USERNAME");

JLabel passwordLabel = new JLabel("PASSWORD");

JTextField userTextField = new JTextField();

JPasswordField passwordField = new JPasswordField();

JButton loginButton = new JButton("LOGIN");

JButton resetButton = new JButton("RESET");

JCheckBox showPassword = new JCheckBox("Show Password");

LoginFrame()

{

setLayoutManager();

setLocationAndSize();

addComponentsToContainer();

addActionEvent();

}

public void setLayoutManager()

{

container.setLayout(null);

}

public void setLocationAndSize()

{

userLabel.setBounds(50, 150, 100, 30);

passwordLabel.setBounds(50, 220, 100, 30);

userTextField.setBounds(150, 150, 150, 30);

passwordField.setBounds(150, 220, 150, 30);

showPassword.setBounds(150, 250, 150, 30);

loginButton.setBounds(50, 300, 100, 30);

resetButton.setBounds(200, 300, 100, 30);

}

public void addComponentsToContainer()

{

container.add(userLabel);

container.add(passwordLabel);

container.add(userTextField);

container.add(passwordField);

container.add(showPassword);

container.add(loginButton);

container.add(resetButton);

}

public void addActionEvent()

{

loginButton.addActionListener(this);

resetButton.addActionListener(this);

showPassword.addActionListener(this);

}

@Override

public void actionPerformed(ActionEvent e)

{

if (e.getSource() == loginButton)

{

String userText;

String pwdText;

userText = userTextField.getText();

pwdText = passwordField.getText();

if (userText.equalsIgnoreCase("mehtab") && pwdText.equalsIgnoreCase("12345"))

{

JOptionPane.showMessageDialog(this, "Login Successful");

}

else

{

JOptionPane.showMessageDialog(this, "Invalid Username or Password");

}

}

if (e.getSource() == resetButton)

{

userTextField.setText("");

passwordField.setText("");

}

if (e.getSource() == showPassword)

{

if (showPassword.isSelected())

{

passwordField.setEchoChar((char) 0);

}

else

{

passwordField.setEchoChar('\*');

}

}

}

}

public class LoginForm

{

public static void main(String[] a)

{

LoginFrame frame = new LoginFrame();

frame.setTitle("Login Form");

frame.setVisible(true);

frame.setBounds(10, 10, 370, 600);

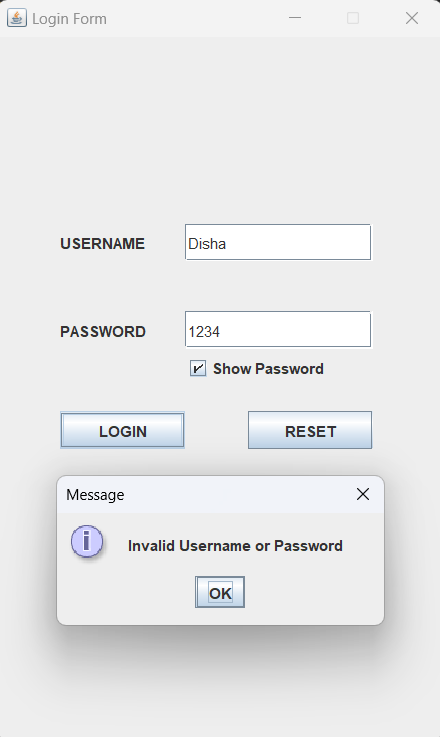
frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

frame.setResizable(false);

}

}

**o/p :**

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