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## **1) Login.java File:**

```
package JavaExam;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JTextField;

public class Login {

    JFrame jf;
    JLabel un,password;
    JTextField unt,passwordt;
    JButton login;
    public Login() {
        // TODO Auto-generated constructor stub
        jf=new JFrame("Login");
        un=new JLabel("UserName");
        un.setBounds(50, 50, 80, 20);

        password=new JLabel("Password");
        password.setBounds(50, 90, 80, 20);

        unt=new JTextField(20);
        unt.setBounds(150, 50, 100, 20);
```

```

passwordt=new JTextField(20);
passwordt.setBounds(150, 90, 100, 20);

login=new JButton("Login");
login.setBounds(50, 220, 80, 30);
login.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try {

            Class.forName("com.mysql.jdbc.Driver");
            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306
/practice","root","");
            Statement st=con.createStatement();
            String a=unt.getText();
            String b=passwordt.getText();
            String query="select * from sessional
where username='"+a+"' and password='"+b+"'";
            ResultSet rs=st.executeQuery(query);
            if(rs.next())
            {

                JOptionPane.showMessageDialog(jf, "Successfully Login");
                Slider s=new Slider();
            }
            else {

                JOptionPane.showMessageDialog(jf, "Invalid Username and
password");
            }
        } catch (Exception e2) {
            // TODO: handle exception
            e2.printStackTrace();
        }
    }
}

```

```

        }
    });
    jf.add(un);
    jf.add(password);
    jf.add(unt);
    jf.add(passwordt);
    jf.add(login);
    jf.setSize(400, 400);
    jf.setLayout(null);
    jf.setVisible(true);
    jf.setDefaultCloseOperation(1);

}

public static void main(String[] args) {
    // TODO Auto-generated method stub
    new Login();
}

}

```

## 2) slider.java File:

```

package JavaExam;
import java.awt.Color;
import java.awt.Container;
import java.awt.FlowLayout;

import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JSlider;
import javax.swing.JTextArea;
import javax.swing.event.ChangeEvent;
import javax.swing.event.ChangeListener;

public class Slider implements ChangeListener{

```

```
JFrame jf;
JSlider jsRed, jsGreen, jsBlue;
JLabel lblDisplay;
Container c;
JTextArea txt;
public Slider() {
    // TODO Auto-generated constructor stub
    jf=new JFrame("slider");
    c=jf.getContentPane();
    jsRed=new JSlider(0, 255, 125);
    jsRed.setMajorTickSpacing(50);
    jsRed.setMinorTickSpacing(50);
    jsRed.setPaintLabels(true);
    jsRed.setPaintTicks(true);

    jsGreen=new JSlider(0, 255, 10);
    jsGreen.setMajorTickSpacing(50);
    jsGreen.setMinorTickSpacing(50);
    jsGreen.setPaintLabels(true);
    jsGreen.setPaintTicks(true);

    jsBlue=new JSlider(0, 255, 10);
    jsBlue.setMajorTickSpacing(50);
    jsBlue.setMinorTickSpacing(50);
    jsBlue.setPaintLabels(true);
    jsGreen.setPaintTicks(true);

    txt=new JTextArea(10,30);

    jf.add(jsRed);
    jf.add(jsGreen);
    jf.add(jsBlue);
    jf.add(txt);

    jsGreen.addChangeListener(this);
    jsRed.addChangeListener(this);
    jsBlue.addChangeListener(this);
}
```

```

jf.setSize(500,500);
jf.setLayout(new FlowLayout());
jf.setVisible(true);

}

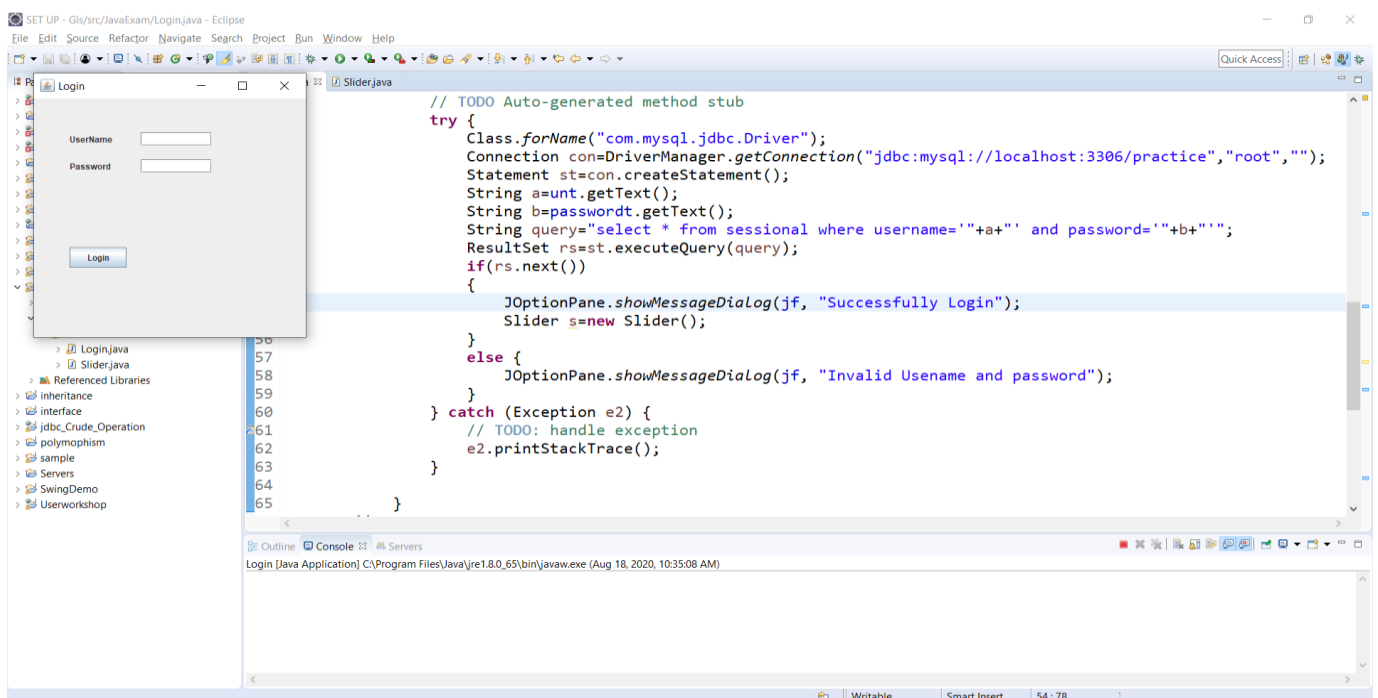
public void stateChanged(ChangeEvent e) {
    // TODO Auto-generated method stub
    c.setBackground(new
Color(jsRed.getValue(),jsGreen.getValue(),jsBlue.getValue())
);
    txt.setText("Value of Red:
"+jsRed.getValue()+"\n"+"Value of Green:
"+jsGreen.getValue()+"\n"+"Value of Blue:
"+jsBlue.getValue());
}

}

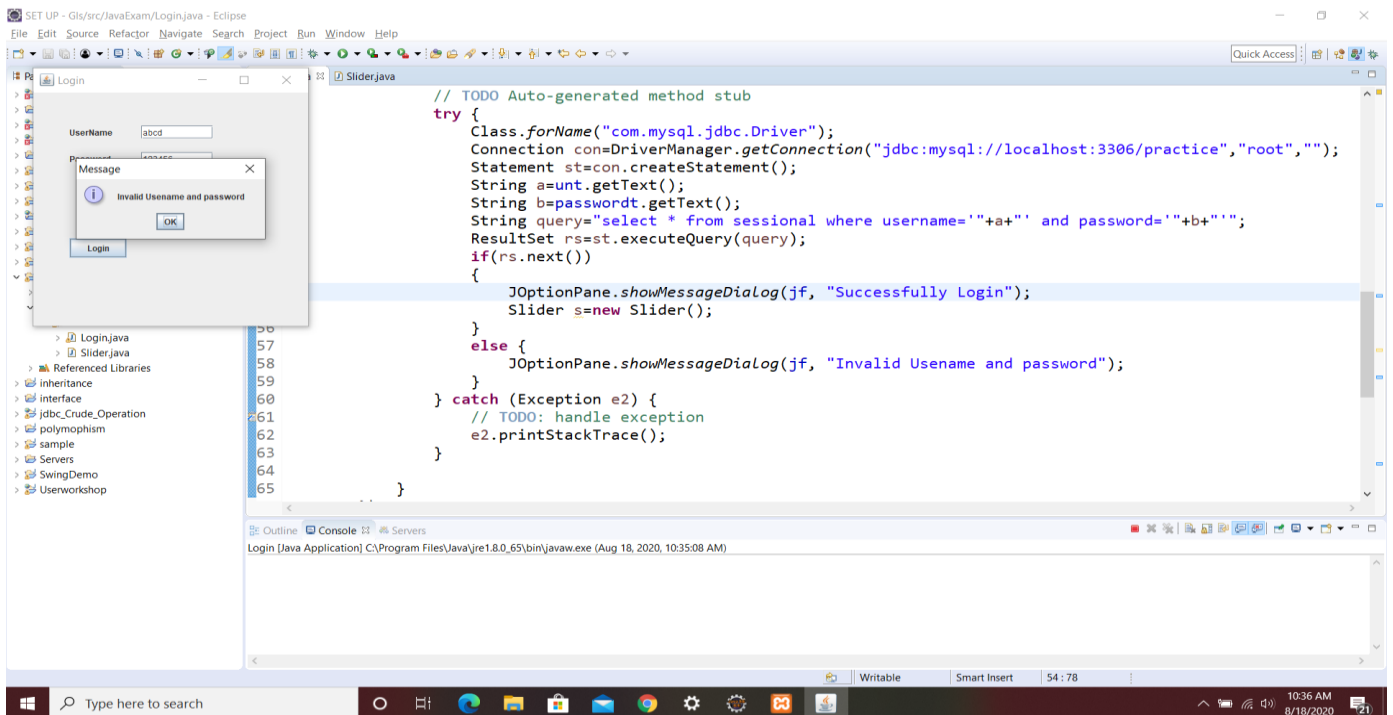
```

## SCREENSHOOT OF OUTPUT

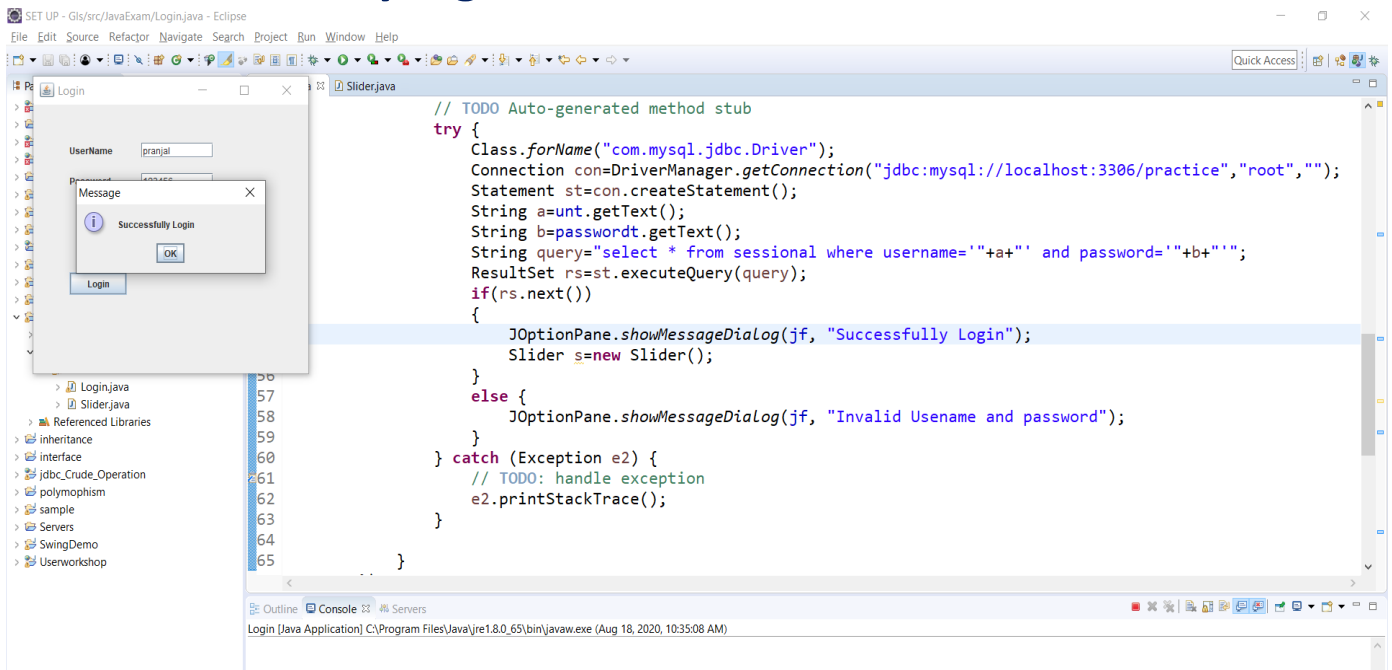
### ➤ Login page:



## ➤ Invalid Username and Password:



## ➤ Successfully login:



## ➤ Sucessfully login after open Slider Page:

