## Assignment No. 8

```
import java.awt.*;
import javax.swing.*;
import java.sql.*;
import java.awt.event.*;
class LoginPage extends JFrame implements ActionListener{
    JLabel I1, I2, I3, I4;
    JTextField t1;
    JPasswordField t2;
    JButton b1;
    Connection cn;
    Statement st;
    LoginPage() {
         I1 = new JLabel("Username");
         12 = new JLabel("Password");
         13 = new JLabel("Login Page", JLabel.CENTER);
         I4 = new JLabel("Login", JLabel.CENTER);
         t1 = new JTextField(5);
         t2 = new JPasswordField(20);
         b1 = new JButton("Login");
         b1.setFont(new Font("Arial", Font.BOLD, 20));
         b1.setSize(150, 40);
         setLayout(new FlowLayout());
         JPanel p1 = new JPanel();
         p1.setLayout(new GridLayout(2,2,30,30));
         13.setFont(new Font("Times New Roman", Font.BOLD, 40));
         14.setFont(new Font("Times New Roman", Font.BOLD, 35));
         14.setForeground(Color.red);
         p1.add(I4);
         p1.add(I3);
         JPanel p2 = new JPanel();
         p2.setLayout(new GridLayout(2,2));
         Font f = new Font("Times New Roman", Font.BOLD, 18);
         p2.add(l1);
         l1.setFont(f);
         p2.add(t1);
         t1.setFont(f);
         p2.add(l2);
         12.setFont(f);
         p2.add(t2);
         t2.setFont(f);
         JPanel p3 = new JPanel();
         p3.add(b1);
         JPanel p4 = new JPanel();
         p4.setLayout(new GridLayout(5,2));
         p4.add(p1);
         p4.add(new JPanel());
         p4.add(p2);
         p4.add(new JPanel());
         p4.add(p3);
         setLayout(new FlowLayout());
         add(p4);
         setVisible(true);
         setBounds(200, 0, 700, 600);
         setTitle("Login");
         setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
         b1.addActionListener(this);
```

```
try
             {
              Class.forName("com.mysql.jdbc.Driver");
DriverManager.getConnection("jdbc:mysql://localhost:3306/student?characterEncoding=utf8","root",
"r2314");
              System.out.println("Connection to the database created");
              st = cn.createStatement();
         }
         catch(Exception e) {
              JOptionPane.showMessageDialog(null,"Error is "+e);
         }
    public void actionPerformed(ActionEvent ae) {
         try
              if(ae.getSource()==b1)
                   if(t1.getText().trim().length()>0)
                        if(t2.getText().trim().length()>0)
                             ResultSet rs = st.executeQuery("Select Password from Login where
Username=""+t1.getText()+""");
                             if(rs.next())
                                 if(rs.getString(1).equals(t2.getText()))
                                      JOptionPane.showMessageDialog(null,"Login Successful!!");
                                 }
                                 else
                                      JOptionPane.showMessageDialog(null,"Invalid password");
                            }
                            else
                                 JOptionPane.showMessageDialog(null,"Invalid username");
                        }
                        else
                            JOptionPane.showMessageDialog(null,"Please Enter the Password");
                   }
                   else
                       JOptionPane.showMessageDialog(null,"Please Enter the Username");
              }
         }
         catch(Exception e) {
              JOptionPane.showMessageDialog(null,""+e);
         }
    public static void main(String args[])
                                             {
         new LoginPage();
}
Output:
```

PS C:\Users\rutuj\OneDrive\Desktop> javac LoginPage.java PS C:\Users\rutuj\OneDrive\Desktop> java LoginPage Connection to the database created







