

Prepare a java application using jdbc-odbc bridge driver update login table with 5 records.

```
1.  import java.awt.*;
2.  import java.awt.event.*;
3.  import javax.swing.*;
4.  import java.sql.Connection;
5.  import java.sql.DriverManager;
6.  import java.sql.ResultSet;
7.  import java.sql.Statement;
8.  import java.sql.PreparedStatement;
9.
10. public class Jdbc extends JFrame implements ActionListener
11. {
12.     Connection cn;
13.     Statement st;
14.     ResultSet rs;
15.     JTextField username, password;
16.     JLabel uname,pass,buname,bpass,lbllogin,fpass;
17.     JButton login, cancel, update;
18.     Container c;
19.
20.     Jdbc()
21.     {
22.         c = this.getContentPane();
23.         c.setLayout(null);
24.         lbllogin= new JLabel("");
25.         lbllogin.setBounds(100, 240, 200, 40);
26.         username= new JTextField();
27.         password=new JTextField();
28.         fpass = new JLabel("<html><u>Forgot Password?</u></html>");
29.         fpass.setForeground(Color.red);
30.         fpass.setBounds(200,140,200,40);
31.
32.
33.         uname = new JLabel("User Name ");
34.         pass = new JLabel("Password");
35.         buname = new JLabel("");
36.         bpass = new JLabel("");
37.
38.
39.         login = new JButton("Log In");
40.         cancel = new JButton("Cancel");
41.         update = new JButton("Update");
42.
43.         uname.setBounds(100,50,100,40);
```

```
44.     username.setBounds(200, 50, 100, 40);
45.     buname.setBounds(300,50,100,40);
46.
47.     pass.setBounds(100,100,100,40);
48.     password.setBounds(200,100,100,40);
49.     bpass.setBounds(300,100,100,40);
50.
51.     login.setBounds(50, 180, 80, 40);
52.     cancel.setBounds(250, 180, 80, 40);
53.     update.setBounds(150,180,80,40);
54.     c.add(fpass);
55.     c.add(update);
56.     c.add(username);
57.     c.add(uname);
58.     c.add(password);
59.     c.add(pass);
60.     c.add(cancel);
61.     c.add(login);
62.     c.add(buname);
63.     c.add(bpass);
64.     c.add(lbllogin);
65.
66.     cancel.addActionListener(this);
67.     login.addActionListener(this);
68.     update.addActionListener(this);
69.     try
70.     {
71.         String driver = "sun.jdbc.odbc.JdbcOdbcDriver";
72.
73.         Class.forName(driver);
74.         String url = "jdbc:odbc:users";
75.
76.         cn=DriverManager.getConnection(url);
77.         st=cn.createStatement();
78.     }
79.     catch(Exception e)
80.     {
81.         System.out.println("Something going wrong with Database");
82.     }
83. }
84. @Override
85. public void actionPerformed(ActionEvent e)
86. {
87.     String btn=e.getActionCommand();
88.     if(btn.equals("Log In"))
89.     {
```

```
90.         if(validate_input())
91.         {
92.             try
93.             {
94.                 String query1 = "select * from login where username=" + username.getText()
+ """;
95.                 String query = "select * from login";
96.                 String u,p;
97.                 int i;
98.                 i=0;
99.                 rs = st.executeQuery(query);
100.                while(rs.next())
101.                {
102.                    u=rs.getString("username");
103.                    p=rs.getString("password");
104.                    if(u.equals(username.getText()) && p.equals(password.getText()))
105.                    {
106.                        System.out.println("Logged In ");
107.                        i=1;
108.                    }
109.                }
110.                if(i==1)
111.                {
112.                    lbllogin.setText("Login Success..");
113.                    lbllogin.setForeground(Color.green);
114.                }
115.                else
116.                {
117.                    lbllogin.setText("Please Enter Valied Credential..");
118.                    lbllogin.setForeground(Color.red);
119.                }
120.            }
121.            catch(Exception lg)
122.            {
123.                System.out.println(lg.getMessage());
124.            }
125.        }
126.    }
127.    if(btn.equals("Cancel"))
128.    {
129.        username.setText("");
130.        password.setText("");
131.        buname.setText("");
132.        bpass.setText("");
133.        lbllogin.setText("");
134.    }
```

```
135.     if(btn.equals("Update"))
136.     {
137.         if(validate_input())
138.         {
139.             try
140.             {
141.                 String query = "update login SET password = ? where username = ?";
142.                 PreparedStatement pst = cn.prepareStatement(query);
143.                 pst.setString(2,username.getText());
144.                 pst.setString(1,password.getText());
145.                 int i = pst.executeUpdate();
146.                 System.out.println("User Updated");
147.                 lbllogin.setText("User Updated..");
148.                 lbllogin.setForeground(Color.green);
149.
150.             }
151.             catch(Exception es)
152.             {
153.                 System.out.println(es);
154.             }
155.         }
156.     }
157. }
158. public boolean validate_input()
159. {
160.     String unamev, passv;
161.     unamev = username.getText();
162.     passv = password.getText();
163.     if(unamev.equals(""))
164.     {
165.         buname.setText("Enter User Name");
166.         buname.setForeground(Color.red);
167.         return false;
168.     }
169.     if(passv.equals(""))
170.     {
171.         bpass.setText("Enter Password");
172.         bpass.setForeground(Color.red);
173.         return false;
174.     }
175.     return true;
176. }
177. public static void main(String[] args) {
178.     Jdbc yf = new Jdbc();
179.     yf.setSize(500,400);
180.     yf.setTitle("Log In");
```

```
181.     yf.setVisible(true);
182. }
183.
184. }
```

OUTPUT

The screenshot shows the NetBeans IDE 8.0.2 interface. On the left, the 'Log In' window is displayed with 'User Name' set to 'nayan' and 'Password' set to '8980246696'. Below the input fields are 'Log In', 'Update', and 'Cancel' buttons, along with a 'Forgot Password?' link. In the center, the 'Database' window shows a table with 5 records. The 'Output' window at the bottom shows 'User Updated' messages.

sr_no	username	password	Click to Add
1	jekil	8866248620	
2	akshay	8141480502	
3	anand	anand	
4	ajay	ajay123	
5	nayan	nayan	

The screenshot shows the NetBeans IDE 8.0.2 interface after a successful login. The 'Log In' window now displays 'User Name' as 'jekil' and 'Password' as 'jekil123'. Below the input fields are 'Log In', 'Update', and 'Cancel' buttons, along with a 'Forgot Password?' link. In the center, the 'Database' window shows a table with 5 records. The 'Output' window at the bottom shows 'User Updated' messages.

sr_no	username	password	Click to Add
1	jekil	jekil123	
2	akshay	8141480502	
3	anand	anand	
4	ajay	ajay123	
5	nayan	nayan	