

# Lab-exam-2

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```
1  import java.sql.*;
2
3  import javax.swing.*;
4
5  import java.awt.event.*;
6
7  class MySwing extends JFrame {
8      JLabel l1, l2, l3, l4, l5, l6;
9      JTextField t1, t2, t3, t4, t5;
10     JButton b1;
11     int id, age;
12     String name, designation, section;
13
14     MySwing(String s) {
15         super(s);
16     }
17
18     public void setComponents() {
19         l1 = new JLabel("Employee ID");
20         l2 = new JLabel("Name");
21         l3 = new JLabel("age");
22         l4 = new JLabel("designation");
23         l5 = new JLabel("section");
24         l6 = new JLabel();
25
26         t1 = new JTextField();
27         t2 = new JTextField();
28         t3 = new JTextField();
29         t4 = new JTextField();
30         t5 = new JTextField();
31
32         b1 = new JButton("submit");
33         setLayout(null);
34         l1.setBounds(50, 50, 200, 20);
35         l2.setBounds(50, 80, 100, 20);
36         l3.setBounds(50, 110, 100, 20);
37         l4.setBounds(50, 140, 100, 20);
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```

38         l5.setBounds(50, 170, 100, 20);
39
40         t1.setBounds(150, 50, 100, 20);
41         t2.setBounds(150, 80, 100, 20);
42         t3.setBounds(150, 110, 100, 20);
43         t4.setBounds(150, 140, 100, 20);
44         t5.setBounds(150, 170, 100, 20);
45
46         l6.setBounds(50, 240, 200, 20);
47         b1.setBounds(50, 200, 200, 20);
48
49         b1.addActionListener(new Handler());
50         add(l1);
51         add(l2);
52         add(l3);
53         add(l4);
54         add(l5);
55         add(l6);
56         add(t1);
57         add(t2);
58         add(t3);
59         add(t3);
60         add(t4);
61         add(t5);
62         add(b1);
63     }
64
65     class Handler implements ActionListener {
66         int age, id;
67         String name, designation, section;
68
69         public void actionPerformed(ActionEvent e) {
70             this.id = Integer.parseInt(t1.getText());
71             // System.out.println(this.id);
72             this.name = t2.getText();
73             this.age = Integer.parseInt(t3.getText());
74             this.designation = t4.getText();
75             this.section = t5.getText();
76             l6.setText("Form submitted");
77         }
78
79         public String getName() {
80             return name;
81         }
82
83         public int getID() {
84             return id;
85         }
86
87         public String getDes() {

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88         return designation;
89     }
90
91     public String getSection() {
92         return section;
93     }
94
95     public int getAge() {
96         return age;
97     }
98
99 }
100
101 private Statement statement;
102
103 public void createTable(Connection con) {
104     String myTableName = "CREATE TABLE bankEntry ("
105         + "empId int(11),"
106         + "name VARCHAR(10),"
107         + "age int(4),"
108         + "designation VARCHAR(10),"
109         + "section VARCHAR(5))";
110
111     try {
112         statement = con.createStatement();
113         statement.executeUpdate(myTableName);
114         System.out.println("Bank Entry table Created");
115     } catch (SQLException e) {
116         System.out.println("An error has occurred on Table
117             Creation");
118     }
119 }
120
121 public void insertRecords(Connection con) {
122
123     try {
124         PreparedStatement preparedStatement = con
125             .prepareStatement(
126                 "INSERT INTO bankEntry (empId, name,
127                     age,designation,section)VALUES (?, ?,
128                     ?, ?, ?)");
129
130         preparedStatement.setString(1, "122");
131         preparedStatement.setString(2, "bob");
132         preparedStatement.setString(3, "12");
133         preparedStatement.setString(3, "HOD");
134         preparedStatement.setString(3, "A");
135         ResultSet myRs = preparedStatement.executeQuery();

```

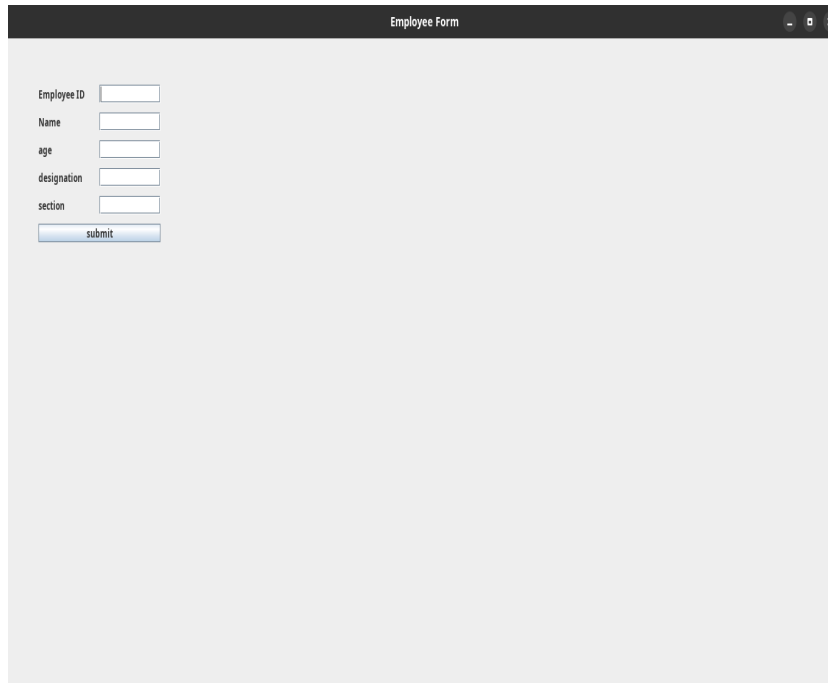
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135         } catch (SQLException e) {
136             System.out.println("An error has occurred on record
137                               Creation");
138         }
139     }
140     public Connection createConnection() {
141         String host = "jdbc:mariadb://localhost:3306/bank";
142         String username = "root";
143         String password = "root";
144         Connection con = null;
145         try {
146             con = DriverManager.getConnection(host, username,
147                                               password);
148             System.out.println("Connected to MySQL database");
149         } catch (SQLException e) {
150             System.out.println("Failed to connect to MySQL database");
151             e.printStackTrace();
152         }
153         return con;
154     }
155 }
156
157 public class App {
158     public static void main(String[] args) throws Exception {
159         // MySwing q = new MySwing("");
160         // Connection con = q.createConnection();
161         // q.createTable(con);
162         // q.insertRecords(con);
163
164         MySwing jf = new MySwing("Employee Form");
165         jf.setComponents();
166         jf.setSize(300, 300);
167         jf.setVisible(true);
168         jf.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
169         // Connection con = jf.createConnection();
170         // q.createTable(con);
171         // jf.insertRecords(con);
172         MySwing.Handler h1 = jf.new Handler();
173         // System.out.println(h1.getAge());
174     }
175 }
176

```

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## Output



The image shows a screenshot of a web application window titled "Employee Form". The window has a dark header bar with the title and standard window control buttons (minimize, maximize, close). The main content area is light gray and contains a form with the following elements:

- Employee ID
- Name
- age
- designation
- section
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