```java
1  /**Servlet to  Database Software Communication
2     Application Devlopment of EmployeeSearchApp
3    (Develop by Vaibhav V Belkhude)
4  step 1:develop Daynamic Web project in eclipse ide
5  step 2:create package com.nt.servlet inside create class "EmployeeSearchApp"
6  step 3: then right click on dynamic web project select build path  then
7          select configure build path(select -->servlet.api jar file)
8          and then again click on and
9          select properties--->Deployment Assembly---->webINF/Lib--->add(OJDBC 6.JAR)
10 Step 4:create html file Search.html
11 step 5:devlop web.xml file
12 *****************************
13 step 6: run on Tomcate 9 server
14          Enter Employee No:7902
15          then we get result
16 ***********************
17 Employee No::7902
18 Employee Name::FORD
19 Employee Desig::ANALYST
20 Employee Salary::3000.0
21 ***********************/
22 //step 1:EmployeeSearchApp.java
23
24 package com.nt.servlet;
25
26 import java.io.IOException;
27 import java.io.PrintWriter;
28 import java.sql.Connection;
29 import java.sql.DriverManager;
30 import java.sql.PreparedStatement;
31 import java.sql.ResultSet;
32 import java.sql.SQLException;
33
34 import javax.servlet.ServletConfig;
35 import javax.servlet.ServletException;
36 import javax.servlet.annotation.WebServlet;
37 import javax.servlet.http.HttpServlet;
38 import javax.servlet.http.HttpServletRequest;
39 import javax.servlet.http.HttpServletResponse;
40
41 /**
42    Author:  (Develop by Vaibhav V Belkhude)
43  * Servlet implementation class EmployeeSearchApp
44  */
45 //@WebServlet("/EmployeeSearchApp")
46 public class EmployeeSearchApp extends HttpServlet {
47 private static final String GET_EMP_DETAILS="SELECT  EMPNO,ENAME,JOB,SAL FROM EMP WHERE EMPNO=?";
48     Connection con;
49     PreparedStatement ps;
50
51     public void init() {
52         System.out.println("--init param--");
53 try {
54     //Register jdbc driver
55     Class.forName("oracle.jdbc.driver.OracleDriver");
56     //Connection establish
57 con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:ORCL","scott","vaibhav92");
58         //Create prepare statement
59             ps=con.prepareStatement("SELECT  EMPNO,ENAME,JOB,SAL FROM EMP WHERE EMPNO=?");
60         }//try
61         catch(Exception e) {
62             e.printStackTrace();
63         }
64     }//init()
```

```java
65        @Override
66   public void doGet(HttpServletRequest req, HttpServletResponse res) throws ServletException, IOException {
67       try {
68         //general setting
69           PrintWriter pw=res.getWriter();
70           //printWriter
71           //set response content type
72           res.setContentType("text/html");
73           //read data from input
74             int no=Integer.parseInt(req.getParameter("empno"));
75           //set value query param
76               ps.setInt(1,no);
77           //execute query
78           ResultSet    rs=ps.executeQuery();
79
80       //process result set object
81
82           if(rs.next()) {
83           pw.println("<h1 style='color:red;text-align:center'>Employee Details are:</h1>");
84           pw.println("<b><br>Employee No::"+rs.getInt(1)+"</b>");
85           pw.println("<b><br>Employee Name::"+rs.getString(2)+"</b>");
86           pw.println("<b><br>Employee Desig::"+rs.getString(3)+"</b>");
87           pw.println("<b><br>Employee Salary::"+rs.getFloat(4)+"</b>");
88           }
89       else {
90       pw.println("<h1 style='color:red;text-align:center'>Employee Details are Not Found:</h1>");
91           }//else
92
93
94       pw.println("<br><br><a href='Search.html'>Home</a>");
95   }//try
96       catch(Exception e) {
97               e.printStackTrace();
98           }
99
100      }//Get(-)
101
102      @Override
103  public void doPost(HttpServletRequest req, HttpServletResponse res) throws ServletException, IOException
104
105          doGet(req, res);
106      }//post
107      //destroy() method
108      public void destroy() {
109          //close jdbc object
110
111          try {
112              if(ps!=null)
113              ps.close();
114              }
115          catch(SQLException se) {
116              se.printStackTrace();
117              }
118          try {
119              if(con!=null)
120              con.close();
121              }
122          catch(SQLException se) {
123              se.printStackTrace();
124              }
125      /*   try {
126              if(pw!=null)
127              pw.close();
128              }
```

```
129                catch(Exception e) {
130                    e.printStackTrace();
131                }*/
132        }//finally
133    }//class
134
135    ==========================================================================================
136    step:2 Develop Search.html file:
137    *****************************
138
139    <h1 style="color:red ;text-align:center">EmployeeSearchApp</h1>
140    <form action="employeeurl" method="POST">
141    <table boader="1" align="center" bgcolor="cyan"  ">
142    <tr>
143    <td>Employee Details are:</td>
144
145    <td><input type="text" name="empno" placeholder="Search Employee" required></td><br><br>
146    </tr>
147    <tr>
148    <td><input type="submit" name="Get EmployeeDetails"></td>
149    </tr>
150    </table>
151    </form>
152    ==========================================================================================
153    step :3 Devlop web.xml file:
154    **************************
155    <?xml version="1.0" encoding="UTF-8"?>
156    <web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
157    xmlns="http://java.sun.com/xml/ns/javaee"
158    xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
159    http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd" id="WebApp_ID" version="3.0">
160
161      <display-name>EmployeeSearch-App</display-name>
162      <servlet>
163      <servlet-name>emp</servlet-name>
164      <servlet-class>com.nt.servlet.EmployeeSearchApp</servlet-class>
165      <load-on-startup>1</load-on-startup>
166      </servlet>
167      <servlet-mapping>
168      <servlet-name>emp</servlet-name>
169    <url-pattern>/employeeurl</url-pattern>
170      </servlet-mapping>
171       <welcome-file-list>
172        <welcome-file>Search.html</welcome-file>
173      </welcome-file-list>
174    </web-app>
175    ==========================================================================================
```