LAB INDEX

NAME: Vivek Kumar
UID: 21BCS8129
SECTION: WM-20BCS-616/A

SUBJECTNAME: Project Based Learning in Java Lab
SUBJECTCODE: 20CSP-314

Sr. No	Program	Date	Evaluation				Sign
			LW (12)	VV (10)	FW (8)	Total (30)	
1	Create an application to save the employee information using arrays.	09-08-2022					
2	Design and implement a simple inventory control system for a small video rentalstore.	23-08-2022					
3	Create a application to calculate interest for FDs, RDs based on certain conditions using inheritance.	02-09-2022					
4	Create a program to show the usage of Sets of Collection interface.	27-09-2022					
5	Create a program to set view of Keys from Java Hashtable.	27-09-2022					
6	Write a Program to perform the basic operations like insert, delete, display and search in list. List contains String object items where these operations are to be performed.	04-10-2022					
7	Create a menu-based Java application with the following options.1. Add an Employee2.Display All3.Exit If option 1 is selected, the application should gather details of the employee like employee name, employee id, designation and salary and store it in a file. If option 2 is selected, the application should display all the employee details. If option 3 is selected the application should exit.	14-10-2022					
8	Create a palindrome creator application for making a longest possible palindrome out of given input string.	01-11-2022					
9	Create a Servlet/ application with a facility to print any message on web browser.	10/11/2022					
10	Create JSP application for addition, multiplication and division.						

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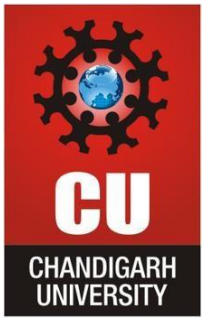
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



Submitted By: Vivek Kumar(21BCS8129)	**Submitted To:** Neeru Sharma(E12950)
Subject Name	Project Based Learning in Java Lab
Subject Code	20CSP-321
Branch	Computer Science and Engineering
Semester	5th

Experiment - 9

Student Name: Vivek Kumar **UID: 21BCS8129**
Branch: BE-CSE(LEET) **Section/Group:20BCS-WM-616/A**
Semester: 5th **Date of Performance: 01/11/2022**
Subject Name: Project Based Learning in Java Lab **Subject Code: 20CSP-321**

1. **Aim/Overview of the practical:**
   Create a program that uses JSP and html to insert, edit, delete or view employee data from a database. You have to use JSP bean class to set values for employee objects.

2. **Task to be done/ Which logistics used:**
   Create a program that uses JSP and html to insert, edit, delete or view employee data from a database. You have to use JSP bean class to set values for employee objects.

3. **Apparatus / Simulator Used:**

   - Eclipse IDE - (Java)
   - NetBeans.
   - JDK-8 or any.

4. **Programs/ Code:**

index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert</title>
</head>
<body>
<h1>Add New Employee</h1>
<form action="addition.jsp">
<table>
<tr><td>Name:</td><td><input type="text" name="name"/></td></tr>
<tr><td>Age:</td><td><input type="text" name="age"/></td></tr>
<tr><td>Salary:</td><td><input type="text" name="salary"/></td></tr>
<tr><td>Experience:</td><td><input type="text" name="exp"/></td></tr>
<tr><td colspan="2"><input type="submit" value="Insert"/></td></tr>
</table>
</form>
<a href="delete.html">delete employees</a>
<br><br>
<a href="ViewServlet">view employees</a>
</body>
</html>
```

addition.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
 pageEncoding="ISO-8859-1" import="abc.employee" import="abc.employeeDb" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%! String Name;%>
<%! int Empid,age,Salary,experience; %>
<%
Name=request.getParameter("name");
age=Integer.parseInt(request.getParameter("age"));
Salary=Integer.parseInt(request.getParameter("salary"));
experience=Integer.parseInt(request.getParameter("exp"));
%>
<jsp:useBean id="ob" class="abc.employee"></jsp:useBean>
<jsp:setProperty property="*" name="ob"/>
<jsp:setProperty property="experience" value="<%= experience %>" name="ob" />
<%
 employeeDb ob1=new employeeDb();
if(ob1.insert(ob))
 out.print("<p>Insertion succesful</p>");
else
 out.print("Insertion failed");
 out.print("<a href=\"index.html\">Add New Employee</a><br></br>");
 out.print("<a href=\"delete.html\">Delete Employee</a><br></br>");
out.print("<a href=\"ViewServlet\">view employees</a>");
%>
</body>
</html>
```

delete.html

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="deletion.jsp">
Empid:<input type="text" name="empid1">
```

```
<input type="submit" value="delete">
</form>
</body>
</html>
```

deletion.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
 pageEncoding="ISO-8859-1" import="abc.employee" import="abc.employeeDb" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%! String Empid; %>
<%
Empid=request.getParameter("empid1");
%>
<jsp:useBean id="ob" class="abc.employeeDb"></jsp:useBean>
<%
if(ob.delete(Integer.parseInt(Empid)))
out.print("<p>Deletion succesful</p>");
else
out.print("<p>Deletion Failed</p>");
out.print("<a href=\"index.html\">Add New Employee</a><br></br>");
out.print("<a href=\"delete.html\">Delete Employee</a><br></br>");
out.print("<a href=\"ViewServlet\">View Employees</a>");
%>
</body>
</html>
```

employee.java

```
package abc;
public class employee
{
String Name;
int age;
int Salary;
int Empid;
int experience;
public String getName() {
return Name;
}
public void setName(String name) {
Name = name;
```

```
}
public int getAge() {
return age;
}
public void setAge(int age) {
this.age = age;
}
public int getSalary() {
return Salary;
}
public void setSalary(int salary) {
Salary = salary;
}
public int getEmpid() {
return Empid;
}
public void setEmpid(int empid) {
Empid = empid;
}
public int getExperience() {
return experience;
}
public void setExperience(int experience) {
this.experience = experience;
}
}
```

employeeDb.java

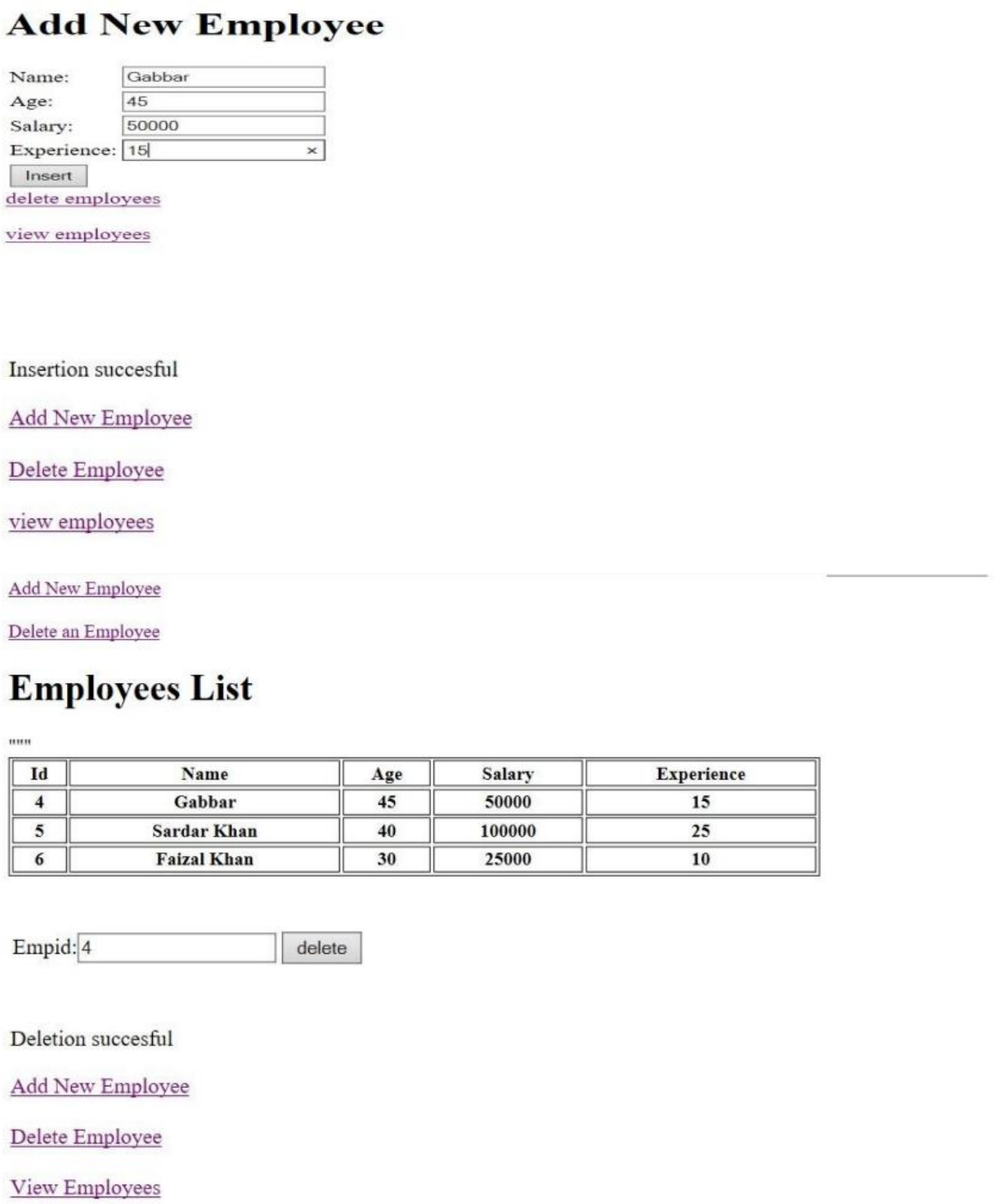
```
package abc;
import java.sql.*;
import java.util.ArrayList;
import java.util.List;
public class employeeDb
{
static Connection con;
Statement stmt;
ResultSet rs;
public boolean insert(employee e) throws SQLException
{
try {
Class.forName("oracle.jdbc.driver.OracleDriver");
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","123");
stmt=con.createStatement();
stmt.executeUpdate("insert into employees
values(seq_emp.nextval,'"+e.Name+"','"+e.age+"','"+e.Salary+"','"+e.experience+"')");
 return true;
```

```
}
catch(Exception ex)
{
return false;
}
}
public boolean delete(int e) throws SQLException
{
try {
Class.forName("oracle.jdbc.driver.OracleDriver");
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","123");
stmt=con.createStatement();
stmt.executeUpdate("delete from employees where ID='"+e+"'");
 return true;
}
catch(Exception ex)
{
return false;
}
}
public static List<employee> getAllEmployees(){
List<employee> list=new ArrayList<employee>();
try{
Class.forName("oracle.jdbc.driver.OracleDriver");
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","123");
PreparedStatement ps=con.prepareStatement("select * from
employees");
ResultSet rs=ps.executeQuery();
while(rs.next()){
employee e=new employee();
e.setName(rs.getString(2));
e.setAge(rs.getInt(3));
e.setEmpid(rs.getInt(1));
e.setExperience(rs.getInt(5));
e.setSalary(rs.getInt(4));
list.add(e);
}
con.close();
}
catch(Exception e){e.printStackTrace();
}
return list;
}
}
```

ViewServlet.java

```
import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import abc.employee;
import abc.employeeDb;
@WebServlet("/ViewServlet")
public class ViewServlet extends HttpServlet {
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out=response.getWriter();
out.println("<a href='index.html'>Add New Employee</a><br></br>");
out.println("<a href='delete.html'>Delete an Employee</a>");
out.println("<h1>Employees List</h1>");
List<employee> list=employeeDb.getAllEmployees();
out.print("<table border='1' width='100%'");
out.print("<tr><th>Id</th><th>Name</th><th>Age</th><th>Salary</th><th>Experien
ce</th></tr>");
for(employee e:list){
out.print("<tr><th>"+e.getEmpid()+"</th><th>"+e.getName()+"</th><th>"+e.getAge()
+"</th><th>"+e.getSalary()+"</th><th>"+e.getExperience()+"</th></tr>\"");
}
out.print("</table>");
out.close();
}
}
```

5. Result/Output/Writing Summary:



Add New Employee

Name: Gabbar
Age: 45
Salary: 50000
Experience: 15
Insert
delete employees
view employees

Insertion succesful

Add New Employee

Delete Employee

view employees

Add New Employee

Delete an Employee

Employees List

""""

Id	Name	Age	Salary	Experience
4	Gabbar	45	50000	15
5	Sardar Khan	40	100000	25
6	Faizal Khan	30	25000	10

Empid: 4 delete

Deletion succesful

Add New Employee

Delete Employee

View Employees

I have successfully done this program.

Learning Outcomes (What I have learnt):

- Learnt the concept of servelet.
- Learnt the concept of JSP.
- Learnt a program that uses JSP and html to insert, edit, delete or view employee data from a database.
-

Evaluation Grid (To be created per the faculty's SOP and Assessment guidelines):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day).		
2.	Post-Lab Quiz Result.		
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.		
	Signature of Faculty (with Date):	Total Marks Obtained:	