

LAB INDEX

NAME: Vivek Kumar

SUBJECTNAME: Project Based Learning in Java Lab

UID: 21BCS8129

SUBJECTCODE: 20CSP-314

SECTION: WM-20BCS-616/A

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.						

**CHANDIGARH UNIVERSITY
UNIVERSITY INSTITUTE OF ENGINEERING
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	5 th		

Experiment - 9

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

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
<style>
    h1{
        margin: auto;
        width: 60%;
        padding-left: 100px;
    }
    body {
        background:orange;
        color: white;
    }
    .fall {
        background: grey;
        color: white;
        border: 2px solid blue;
        width: 45%;
        margin:auto;
    }
    .input-group{
        position: relative;
```

```

        margin: 23px;
        left: 175px;
    }
    button{
        position: relative;
        left: 35%
    }
    button:hover{
        cursor:pointer;
        background: black;
        color: white;
    }
    h3{
        margin: auto;
        width: 40%;
        padding: 5px;
    }
</style>
</head>
<body>
    <h1>Welcome the AP Auctions, Please Enter the Bid</h1>
    <form class="fall" name="register_form"
    action="<%=request.getContextPath()%>/functions" method="post" >
        <div class="input-group mb-2">
            <input type="text" name="name" id="name" onkeypress="return
            /[0-9a-zA-Z]/i.test(event.key)" class="form-control input_user" required="required"
            placeholder="Item ID">
        </div>
        <p class="error" id="name_id"></p>
        <div class="input-group mb-2">
            <div class="input-group-append">
                <span class="input-group-text"><i class="fas fa-
user"></i></span>
            </div>
            <input type="text" name="branch" id="branch" onkeypress="return
            /[0-9a-zA-Z]/i.test(event.key)" class="form-control input_user" required="required"
            placeholder="Item
Name">
        </div>
        <p class="error" id="branch_id"></p>
        <div class="input-group mb-2">
            <div class="input-group-append">
                <span class="input-group-text"><i class="fas fa-
user"></i></span>
            </div>
            <input type="text" name="course" id="course"
onkeypress="return /[0-9a-zA-Z]/i.test(event.key)" class="form-control input_user"
required="required"
            placeholder="Your
Name">
        </div>
        <p class="error" id="course_id"></p>
        <div class="input-group mb-2">

```

```

        <div class="input-group-append">
            <span class="input-group-text"><i class="fas fa-
user"></i></span>
        </div>
        <input type="email" name="email" id="email" onkeypress="return
/[0-9a-zA-Z.@_]/i.test(event.key)" class="form-control input_user" required="required"
placeholder="Email">
    </div>
    <p class="error" id="email_id"></p>

    <div class="input-group mb-2">
        <div class="input-group-append">
            <span class="input-group-text"><i class="fas fa-
user"></i></span>
        </div>
        <input type="number" id="number"
onKeyPress="if(this.value.length==10) return false;" name="number" class="form-control
input_user" required="required"
placeholder="Amount
Bid">
    </div>

    <p class="error"
id="number_id"></p>
    <button type="submit" onclick=hide()>Submit Bid</button>
</form>
<script>
document.getElementById("name").addEventListener("keypress", myname);
document.getElementById("name").addEventListener("mouseover", myname);
function myname() {
    var name= document.register_form.name.value;
    var paragraph = document.getElementById("name_id");
    if(name.length==0){
        paragraph.textContent="Please enter your Id !!";
        document.register_form.name.focus();
    }
    if(name.length>5 && name.length!=0){
        paragraph.textContent="\ID should not be greater than 5
character !!!";
        document.register_form.name.focus();
    }
    if(name.length<5){
        paragraph.textContent="";
    }
}

document.getElementById("email").addEventListener("keypress", myemail);
document.getElementById("email").addEventListener("mouseover", myemail);
function myemail() {
    var email= document.register_form.email.value;
    var paragraph = document.getElementById("email_id");
    if(email.length==0){
        paragraph.textContent="Please enter your email !!";
        document.register_form.email.focus();
    }
}

```

```

        else if(!(/^\w+([\.-]?\w+)*@\w+([\.-
]? \w+)*(\.\w{2,3})+$/).test(email))) {
            paragraph.textContent="Enter valid email !!!";
            document.register_form.email.focus();
        }
        else {
            paragraph.textContent="";
        }
    }

document.getElementById("branch").addEventListener("keypress", mybranch);
document.getElementById("branch").addEventListener("mouseover", mybranch);
function mybranch() {
    var branch= document.register_form.branch.value;
    var paragraph = document.getElementById("branch_id");
    if(branch.length<1){
        paragraph.textContent="Please enter your Item Name !!";
        document.register_form.branch.focus();
    }
    else {
        paragraph.textContent="";
    }
}

document.getElementById("course").addEventListener("keypress", mycourse);
document.getElementById("course").addEventListener("mouseover", mycourse);
function mycourse() {
    var course= document.register_form.course.value;
    var paragraph = document.getElementById("course_id");
    if(course.length<1){
        paragraph.textContent="Please enter your Name !!";
        document.register_form.course.focus();
    }
    else {
        paragraph.textContent="";
    }
}

document.getElementById("number").addEventListener("keypress", mynumber);
document.getElementById("number").addEventListener("mouseover", mynumber);
function mynumber() {
    var number= document.register_form.number.value;
    var paragraph = document.getElementById("number_id");
    if(number.length==0){
        paragraph.textContent="Please enter your Amount Bid !!!";
        document.register_form.email.focus();
    }
    else if(!(/^[6-9]\d{9}$/).test(number)){
        paragraph.textContent="Enter valid Amount Bid !!!";
        document.register_form.number.focus();
    }
    else {
        paragraph.textContent="";
    }
}

```

```
</script>
<h3>Bid Submitted</h3>
<h3>Your bid is now active. if your bid is successful, you will be notified within
24HRS</h3>
<h3> Item id:  <%=request.getAttribute("ans") %></h3> <br>
<h3> Item Name: <%=request.getAttribute("ans1") %></h3> <br/>
<h3> Your Name <%=request.getAttribute("ans2") %></h3><br/>
<h3> Email:<%=request.getAttribute("ans3") %></h3><br/>
<h3> Your Amount: <%=request.getAttribute("ans4") %></h3><br/>
</body>
</html>
```

Functions.java

```
package unit3;
import java.util.*;
import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 * Servlet implementation class functions
 */
@WebServlet(name="functions",urlPatterns={"/functions"})
public class functions extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        String a=request.getParameter("name");
        String b=request.getParameter("branch");
        String c=request.getParameter("course");
        String d=request.getParameter("email");
        String e=request.getParameter("number");
        try {

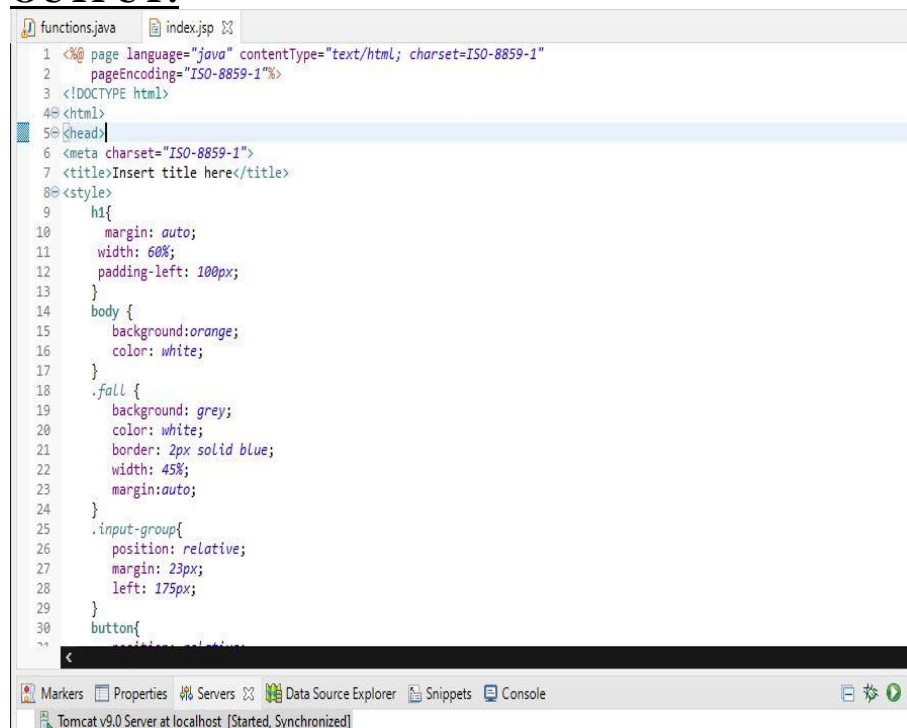
            String ans=a;
            String ans1=b;
            String ans2=c;
            String ans3=d;
```



```
String ans4=e;
request.setAttribute("ans",ans);
request.setAttribute("ans1",ans1);
request.setAttribute("ans2",ans2);
request.setAttribute("ans3",ans3);
request.setAttribute("ans4",ans4);
```

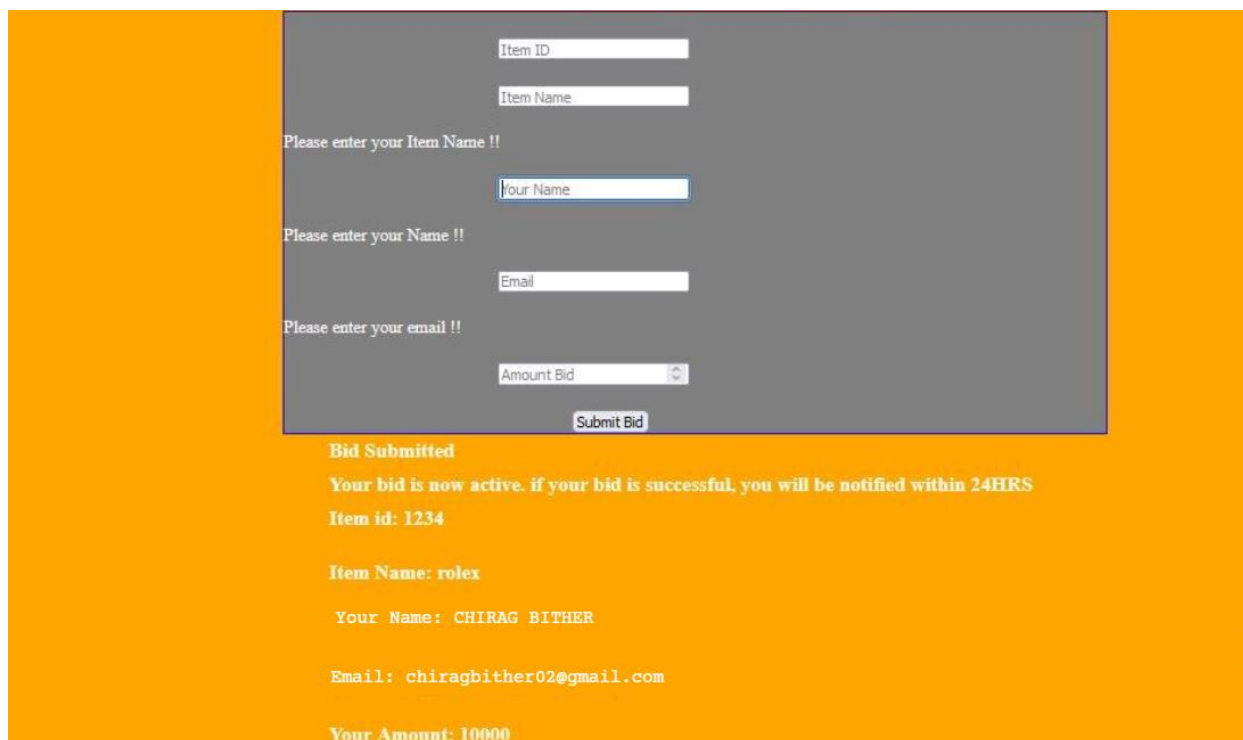
```
request.getRequestDispatcher("index.jsp").forward(request,response);
} catch(Exception e1) {
    System.out.println(e1);
}
}
```

OUTPUT:



```
functions.java index.jsp
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2   pageEncoding="ISO-8859-1"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6   <meta charset="ISO-8859-1">
7   <title>Insert title here</title>
8   <style>
9     h1{
10      margin: auto;
11      width: 60%;
12      padding-left: 100px;
13    }
14    body {
15      background:orange;
16      color: white;
17    }
18    .fall {
19      background: grey;
20      color: white;
21      border: 2px solid blue;
22      width: 45%;
23      margin:auto;
24    }
25    .input-group{
26      position: relative;
27      margin: 23px;
28      left: 175px;
29    }
30    button{
31      position: relative;
32      margin: 23px;
33      left: 175px;
34    }
35  }
36 </style>
37 </head>
38 <body>
39
40 </body>
41 </html>
```

Markers Properties Servers Data Source Explorer Snippets Console
Tomcat v9.0 Server at localhost [Started, Synchronized]



The screenshot shows a web application interface for submitting a bid. The form is set against a grey background with orange borders. It contains the following fields and labels:

- Item ID
- Item Name
- Please enter your Item Name !!
- Your Name
- Please enter your Name !!
- Email
- Please enter your email !!
- Amount Bid
-

Below the form, on an orange background, is the confirmation message:

Bid Submitted
 Your bid is now active. if your bid is successful, you will be notified within 24HRS
 Item id: 1234
 Item Name: rolex
 Your Name: CHIRAG BITHER
 Email: chiragbither02@gmail.com
 Your Amount: 10000

Learning outcomes (What I have learnt):

1. Learn About the servlet.
2. Learn about jsp and dynamic web project.
3. Learn about the tomcat server and its integrations with the java.

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:	