

## UNIVERSITY INSTITUTE OF ENGINEERING

## **Department of Computer Science & Engineering**

Subject Name: Project Based Learning in Java Lab

Subject Code: 20CSP321

Submitted to: Er.Parveen Tanwar Sir Submitted by: Pranjal Kumar

**Faculty name**: Er. Parveen Tanwar Sir **Name**: Pranjal Kumar

**UID:** 20BCS3504

Section: 607

Group: B

Ex. No	List of Experiments	Conduct (MM: 12)	Viva (MM: 10)	Record (MM: 8)	Total (MM: 30)	Date	Remarks/Signature
	Create an application to save the					03/09/22	
	employee information using arrays.  Design and implement a simple inventory control system for a small video rental store.					05/09/22	
1.3	Create a application to calculate interest for FDs, RDs based on certain conditions using inheritance.					10/09/22	
2.1	Create a program to set view of Keys from Java Hashtable.					29/09/22	
	Create a program to show the usage of Sets of Collection interface.					07/10/22	
	Write a Program to perform them basic operations like insert, delete, display, and search in list. List contains String object items where these operations are to be performed.					12/10/22	
2.4	Create a menu-based Java application with the following options.  1.Add an Employee  2.Display All  3.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.					13/10/22	
	Create a palindrome creator application for making a longest possible palindrome out of given input string.					03/11/22	
3.2	Create a Servlet/ application with a facility to print any message on web browser.					04/11/22	
	Create JSP application for addition, multiplication and division.						

# Department of Computer Science & Engineering Experiment 3.2

Student Name: Pranjal Kumar UID: 20BS3504

Branch: CSE Section/Group: 607-B

Semester: 5th Date of Performance: 04/11/22

Subject Name: PBLJ Lab Subject Code: 20CSP-321

#### AIM:

Create a Servlet/application with a facility to print any message on web browser.

### **Software/Hardware Requirements:**

VS Code or Eclipse

#### **Algorithm/ PsuedoCode:**

STEP 1- Create a index.jsp file in a webapp directory.

STEP 2 - Create a package named as fun and create a java file named as functions.java.

STEP 3 - functions.java file contains the logic for checking the validation in the form of submitting.

STEP 4- At Last start the server and display the output on the web browser.

STEP 5- EXIT

#### JAVA CODE/INPUT:

## 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-</pre>
Z]/i.test(event.key)" class="form-control input user" required="required"
                                                                placeholder="Item ID">
                         </div>
                   <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-</pre>
Z]/i.test(event.key)" class="form-control input user" required="required"
                                                                placeholder="Item Name">
                   </div>
                         <div class="input-group mb-2">
                         <div class="input-group-append">
                                <span class="input-group-text"><i class="fas fa-user"></i></span>
                         </div>
```

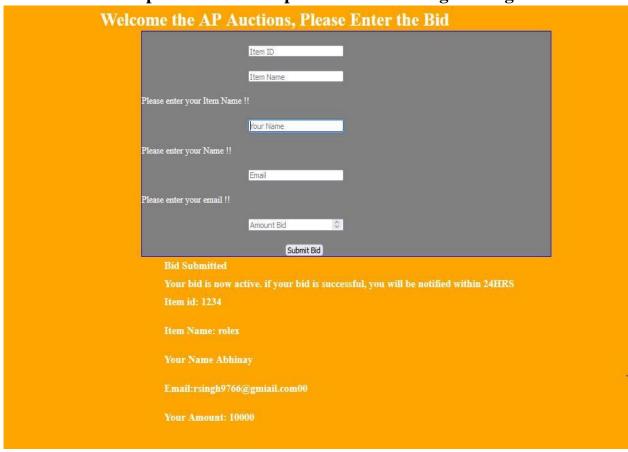
```
<input type="text" name="course" id="course" onkeypress="return /[0-9a-zA-</pre>
Z]/i.test(event.key)" class="form-control input user" required="required"
                                                                placeholder="Your Name">
                   </div>
                   <div class="input-group mb-2">
                          <div class="input-group-append">
                                      <span class="input-group-text"><i class="fas fa-</pre>
user"></i></span>
                         </div>
                       <input type="email" name="email" id="email"onkeypress="return /[0-9a-zA-</pre>
Z.@_]/i.test(event.key)" class="form-control input_user" required="required"
                                                                placeholder="Email">
                   </div>
                         <div class="input-group mb-2">
                         <div class="input-group-append">
                                      <span class="input-group-text"><i class="fas fa-</pre>
user"></i></span>
                         </div>
                       <input type="number" id="number" onKeyPress="if(this.value.length==10)</pre>
return false;" name="number" class="form-control input_user" required="required"
                                                                placeholder="Amount Bid">
                   </div>
                                                                id="number_id">
           <button type="submit" onclick=hide()>Submit Bid
       </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){</pre>
                         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))){
```

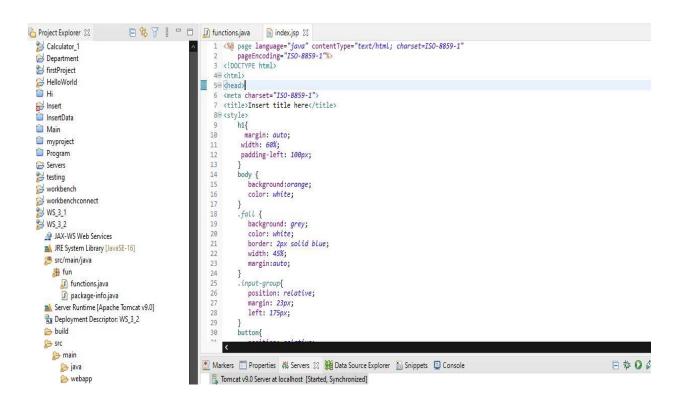
paragraph.textContent="Enter valid email !!!";

```
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){</pre>
                   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){</pre>
                   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 fun;
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:
```





**Department of Computer Science & Engineering** 

## **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.