Experiment: 3.2

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Semester: 5

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

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

2.Software/Hardware Requirements: VS Code or Eclipse

3. 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

CODE:

Index.jsp

```
<%@pagelanguage="java"contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
<!DOCTYPEhtml>
<html> <head>
<metacharset="ISO-8859-1">
```

```html
<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>
<formclass="fall"name="register_form"action="<%=request.getContextPath()%>/functions"
method="post">
<divclass="input-group mb-2">
                        <inputtype="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>
            <pclass="error"id="name_id"></p>
            <divclass="input-group mb-2">
                <divclass="input-group-append">
                        <spanclass="input-group-text"><iclass="fas
fauser"></i></span>
                </div>
            <inputtype="text"name="branch"id="branch"onkeypress="return /[0-
9a-zA-Z]/i.test(event.key)"class="form-control input_user"required="required"
                                                placeholder="Item
```

```html
Name">
                    </div>
                        <pclass="error"id="branch_id"></p>
                <divclass="input-group mb-2">
                        <divclass="input-group-append">
                                <spanclass="input-group-text"><iclass="fas
fauser"></i></span>
                        </div>

 <inputtype="text"name="course"id="course"onkeypress="return              /[0-9a-
zAZ]/i.test(event.key)"class="form-control input_user"required="required"
                                                            placeholder="Your
Name">
                    </div>
                    <pclass="error"id="course_id"></p>
<divclass="input-group mb-2">
                        <divclass="input-group-append">
                                    <spanclass="input-group-text"><iclass="fas  fa-
user"></i></span>
                        </div>
                    <inputtype="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>
                        <pclass="error"id="email_id"></p>

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

        <pclass="error"id="number_id"></p>
<buttontype="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){
```

```javascript
                            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();
                }
                elseif(!(/^\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();
                            }
                            elseif(!(/^[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>
```

```java
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");
```

```java
        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,re
sponse);

        }catch(Exception e1) {

            System.out.println(e1);

        }
```

```
            }

      }
```

OUTPUT:

Welcome the AP Auctions, Please Enter the Bid

Item ID

Item Name:

Please enter your Item Name !!

Your Name

Please enter your Name !!

Email

Please enter your email !!

Amount Bid

Submit Bid

Bid Submitted

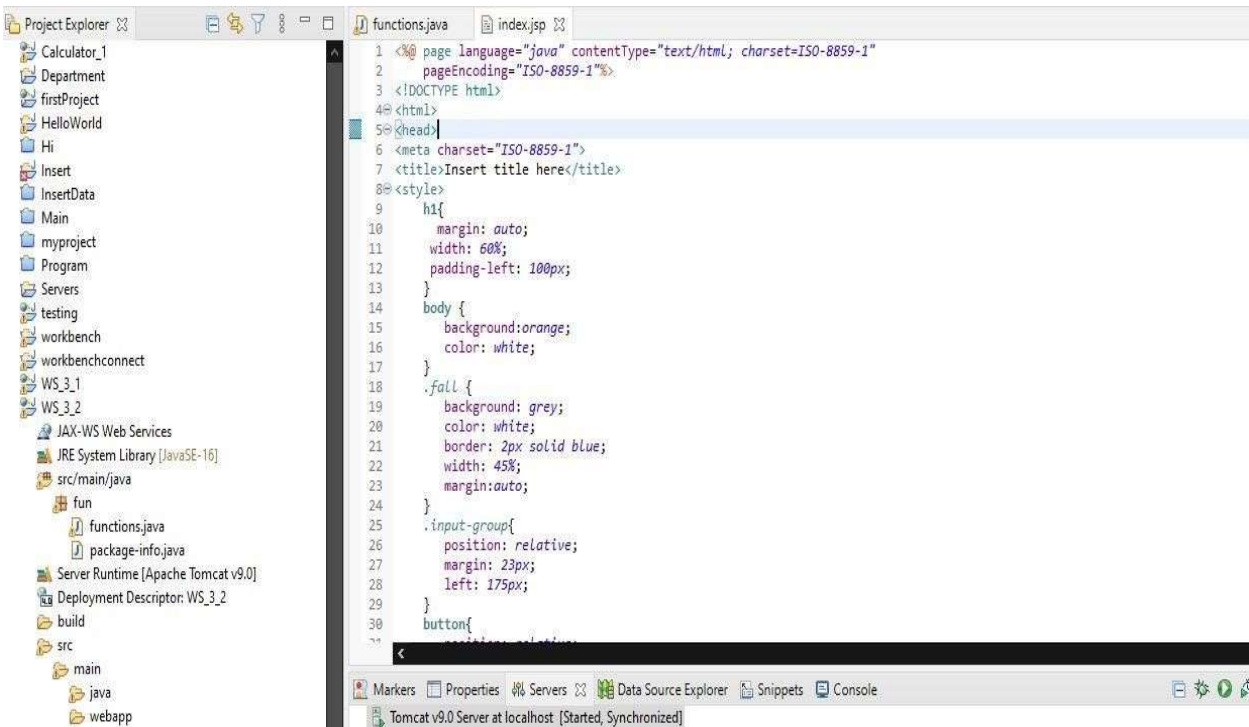**Your bid is now active. if your bid is successful, you will be notified within 24HRS**

Item id: 1234

Item Name: rolex

Your Name Abhinay

Email:rsingh9766@gmiail.com00

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.