Experiment 3.2

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

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

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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

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
```

```html
<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">
```

```html
                                <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="formcontrol
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);
```

```javascript
        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();
        }
```

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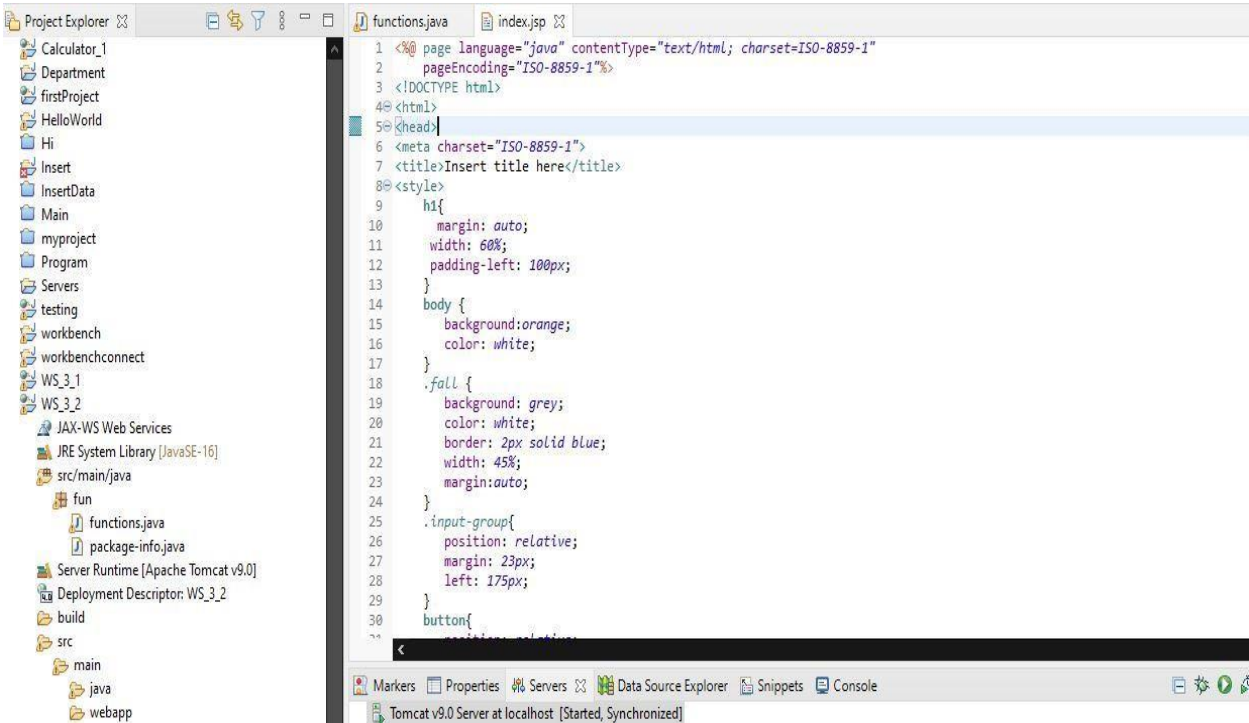
```html
        <h3>Your bid is now active. if your bid is successful, you will be notified
within 24HRS</h3>
        <h3> Item id:  <%=request.getAttribute("ans") %></h3> <br>
        <h3> Item Name: <%=request.getAttribute("ans1") %></h3> <br/>
        <h3> Your Name <%=request.getAttribute("ans2")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

```java
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:

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.