



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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Experiment 3.2

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Branch: BE-CSE

Semester: 5TH

Subject Name : PBLJ Lab

UID: 20BCS2334

Section/Group: 20BCS903 A

Date of Performance:

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



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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>
```



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```
<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">
```



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```
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="";
    }
}
```

```
mybranch);
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="";
    }
}

mycourse);
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="";
    }
}

mynumber);
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="";
    }
}
```



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```
</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);
```



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```
request.getRequestDispatcher("index.jsp").forward(request, response);

        }catch(Exception e1) {

            System.out.println(e1);

        }

    }

}
```

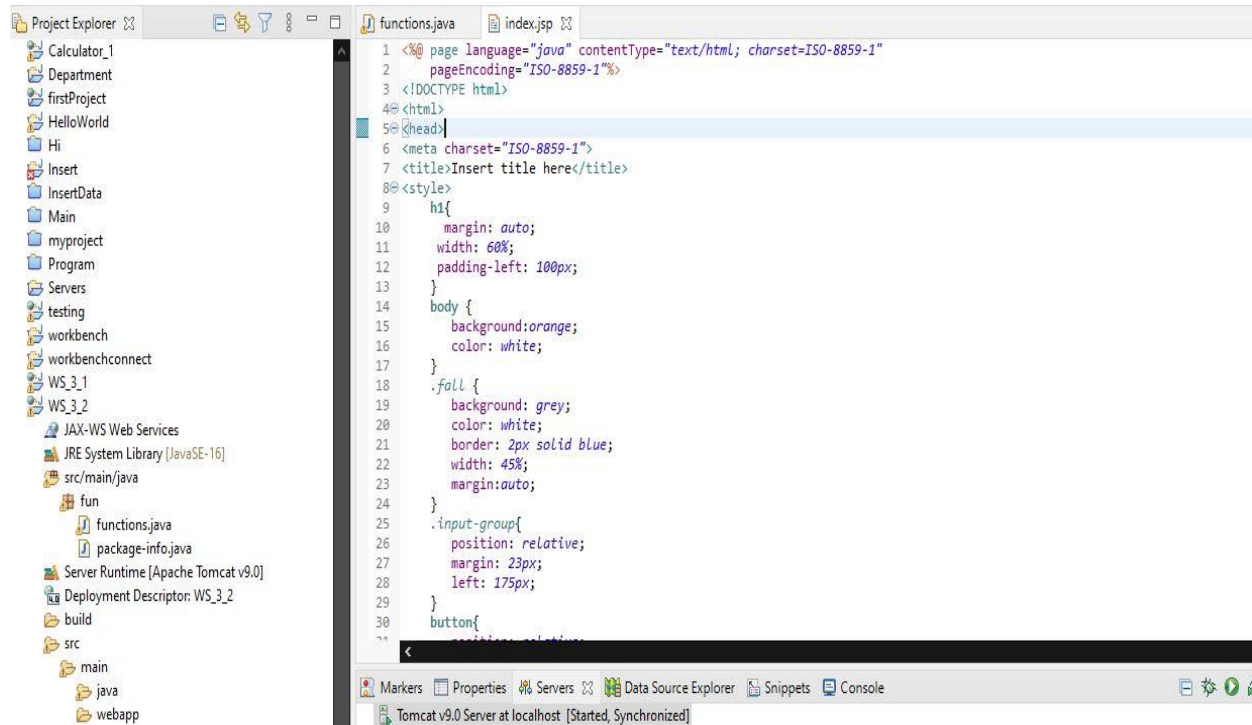
OUTPUT:

The screenshot shows a web browser window with the address bar displaying 'localhost:8080/exp3_2/functions'. The page has an orange background and a title 'Welcome the AP Auctions, Please Enter the Bid'. A grey rectangular form contains the following input fields and a button:

- Item ID
- Item Name
- Your Name
- Email
- Amount Bid
- Submit Bid

Below the form, the output of the bid submission is displayed:

Bid Submitted
Your bid is now active. if your bid is successful, you will be notified within 24HRS
Item id: 23
Item Name: mango
Your Name isha
Email:ishapaul130@gmail.com
Your Amount: 1000



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.