



Experiment Title – 3.2

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Semester: 5th

Subject Code: 21 CSP-321

Subject Name: PBLJ LAB

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>
```

```

<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
```

```
 */
```

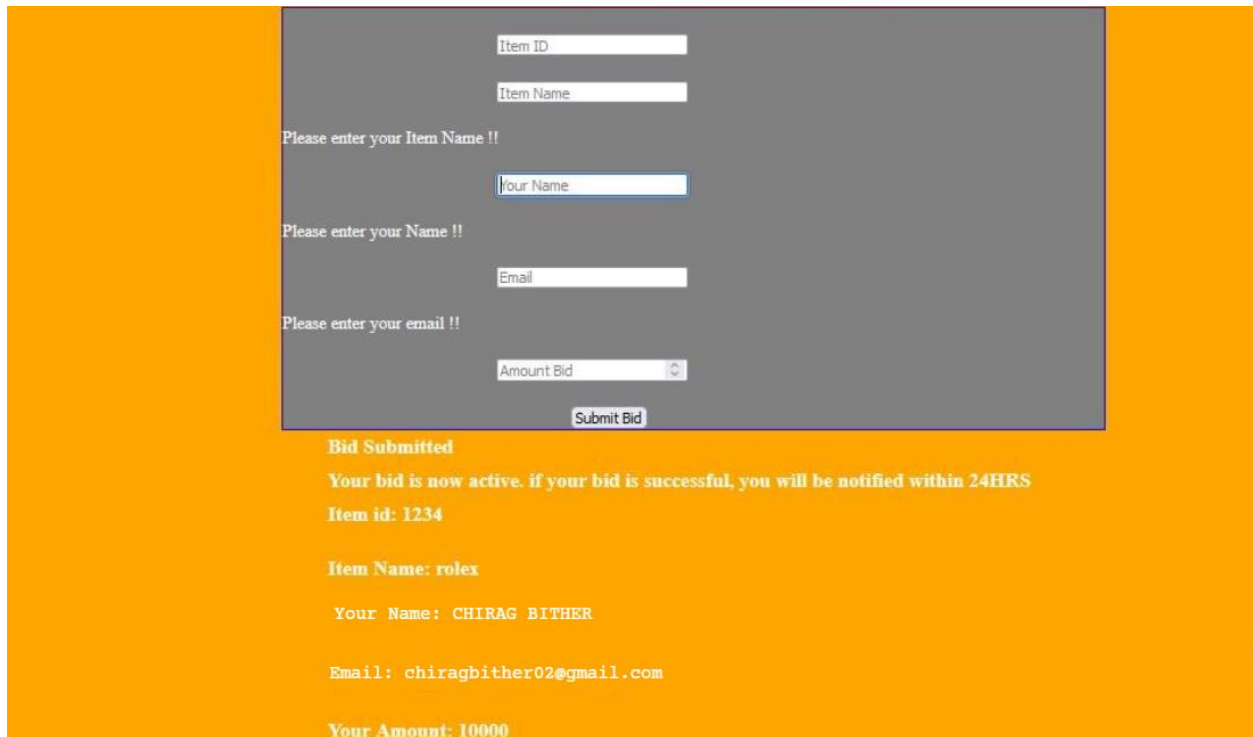
```
@WebServlet(name="functions",urlPatterns={"/functions"})
```

```
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);  

```

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

OUTPUT:



The screenshot displays a web application interface on an orange background. At the top, there is a grey rectangular form containing several input fields and a submit button. Below the form, the output of the application is shown in a monospaced font.

Form Fields:

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

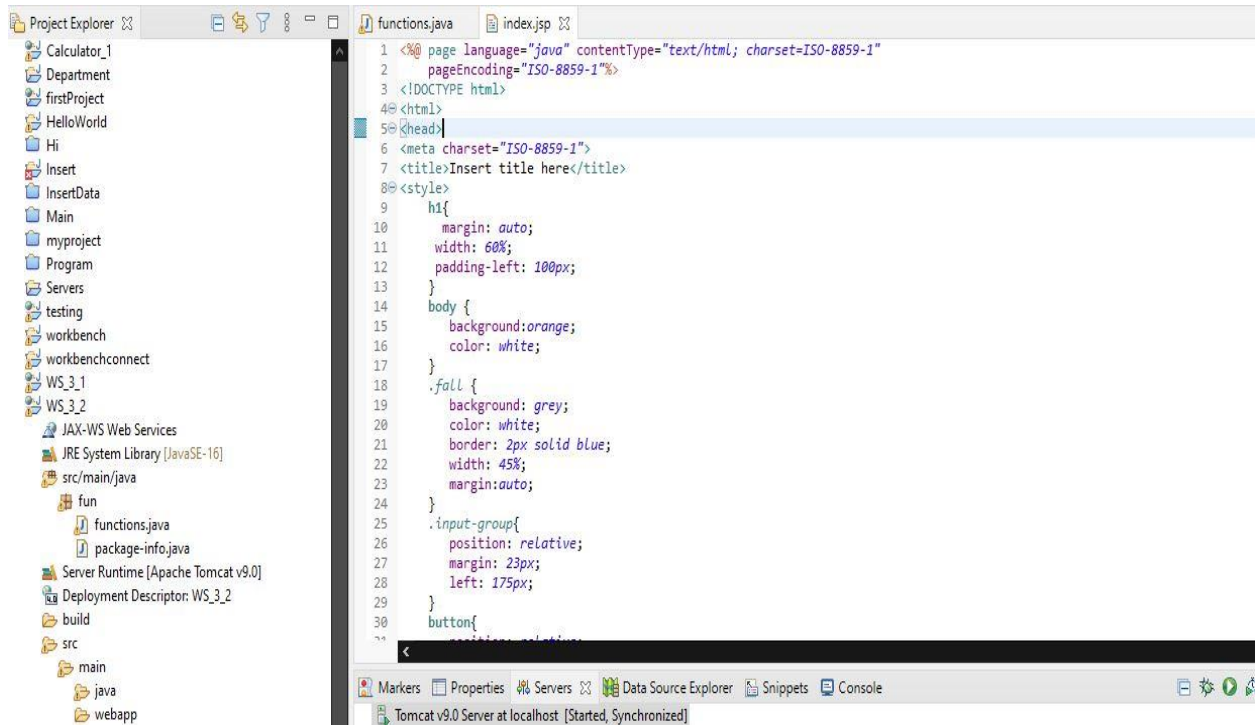
Output:

```
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
```




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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.