

Experiment 3.2

Student Name: Lipakshi

UID: 20BCS5082

Branch: BE-CSE

Section: 607B

Subject: PBLJ Lab

Subject Code: 20CSP-321

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

```
<%@ 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-grou
p-append">
            <span
class="input-group-text"><i
class="fas fa-
user"></i></span>
        <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="in
put-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">
```

```

fa-user"></i></span>                </div>
                                     <span
                                     class="input-group-text"
                                     ><i class="fas

                                     <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
character !!!";
        should not be greater than 5

        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();
```

```
mybranch); mybranch);
```

```
    }  
    else{  
    }  
}
```

```
mycourse); mycourse);
```

```
document.getElementById("branch  
").addEventListener("keypress",  
document.getElementById("branch  
").addEventListener("mouseover"  
,  
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();  
paragraph.textContent="";
```

```
document.getElementById("course  
").addEventListener("keypress",  
document.getElementById("course  
").addEventListener("mouseover"  
,  
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",
document.getElementById("number
").addEventListener("mouseover"
,
function mynumber() {
    var number=
    document.register_form.number.value
    ;
    var paragraph =
    document.getElementById("number_id"
    );
    if(number.length==0){
        paragraph.textContent="P
        lease enter your Amount
        Bid !!";
        document.register_form.e
        mail.focus();
    }
    else if(!(/^[6-9]\d{9}$/.test(number))){
        paragraph.textContent="Enter valid Amount Bid !!!";
        document.register_form.number.focus();
    }
}
mynumber); mynumber);

```



```

        </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.jav

a 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);
```



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```
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:

Welcome the AP Auctions, Please Enter the Bid

Item ID	<input type="text"/>
Item Name	<input type="text"/>
Please enter your Item Name !!	
Your Name	<input type="text"/>
Please enter your Name !!	
Email	<input type="text"/>
Please enter your email !!	
Amount Bid	<input type="text"/>
<input type="button" value="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 Abhinav
Email: rsingh9766@gmail.com00
Your Amount: 10000

```
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2   pageEncoding="ISO-8859-1"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6   <meta charset="ISO-8859-1">
7   <title>Insert title here</title>
8   <style>
9     h1{
10       margin: auto;
11       width: 60%;
12       padding-left: 100px;
13     }
14     body {
15       background:orange;
16       color: white;
17     }
18     .fall {
19       background: grey;
20       color: white;
21       border: 2px solid blue;
22       width: 45%;
23       margin:auto;
24     }
25     .input-group{
26       position: relative;
27       margin: 23px;
28       left: 175px;
29     }
30     button{
31       position: relative;
```

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.