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.
.

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

```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>
```

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

```html
                    </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="";
                    }
            }
```

```javascript
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();
        }
        else if(!(/^[6-9]\d{9}$/.test(number))){
                paragraph.textContent="Enter valid Amount Bid !!!";
                document.register_form.number.focus();
        }
        else{
                paragraph.textContent="";
        }
}
```

```html
</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

```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 {
```
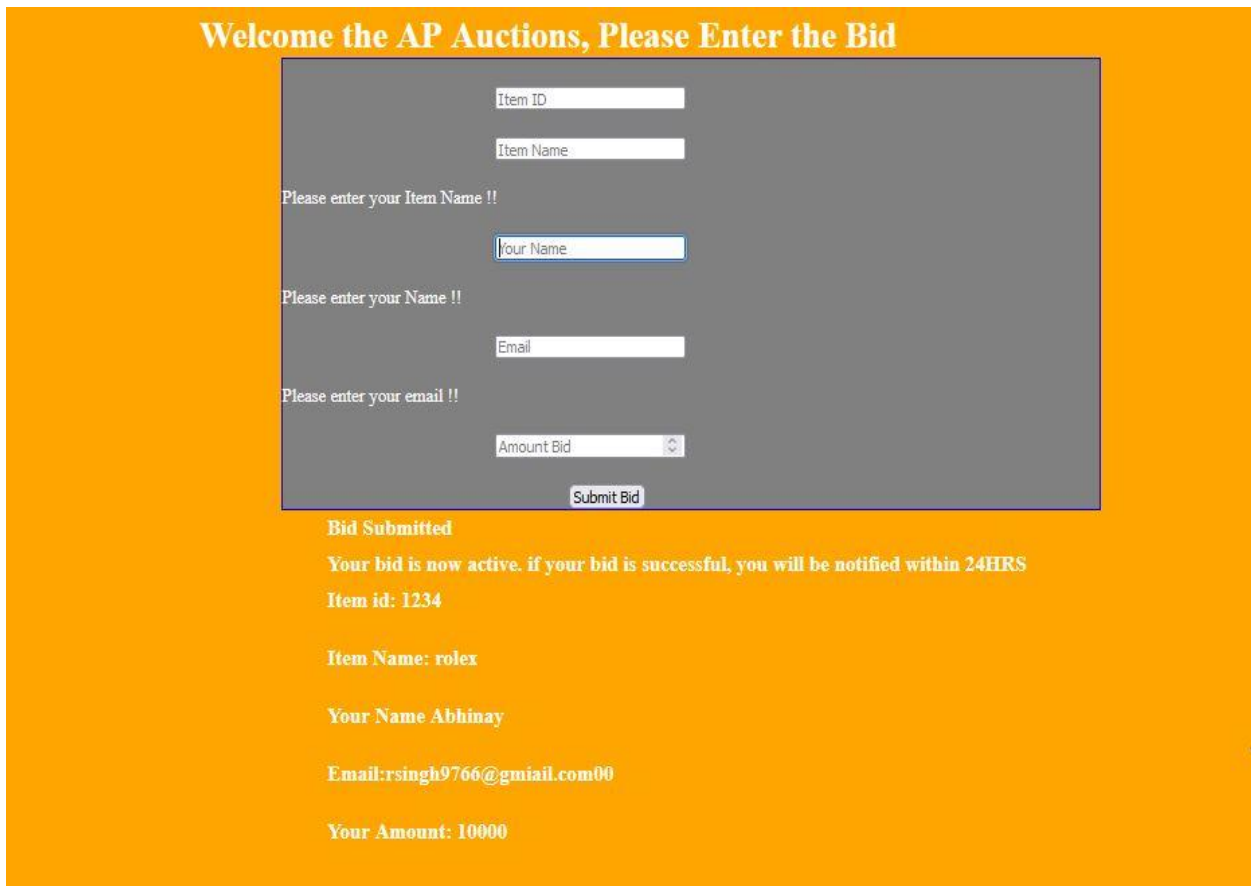
```java
        protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException {

            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,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
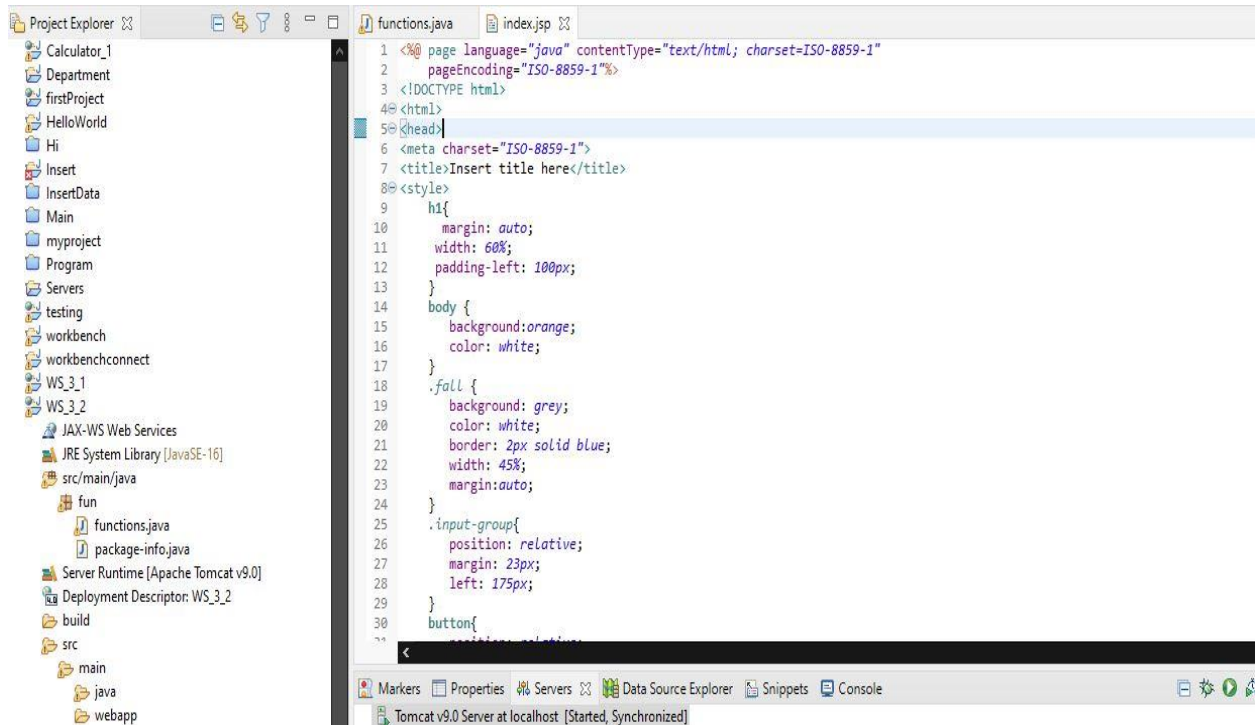
Item id: 1234

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.