



# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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## Experiment No: 3.3

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**Section/Group:** 21BCS-CC-646 (B)

**Semester:** 6<sup>th</sup>

**Date of Performance:** 1/04/2024

**Subject Name:** Project Based Learning in Java with Lab

**Subject Code:** 21CSH-319

**Aim:** Create a program to create JSP, Servlet application to demonstrate the expression tag by using mathematical operation.

### Objective:

1. To learn about Servlet.
2. To learn about how jsp and servlet works java.

**Input/Apparatus Used:** IntelliJ / VS Code.

### Procedure/Algorithm/Pseudocode

#### 1. Index.jsp

Receive Bid Information: Receive bid information from a form submission.

Display Bid Confirmation Page:

Style the Page

Ensure Character Encoding: Set the character encoding to UTF-8 in both HTML and Java code.

Handle Dynamic Content: Use Java code within `<%= ... %>` tags to dynamically populate bid details from request parameters.

#### 2. AuctionForm.jsp

Display Bid Entry Form:

Style the Page

Ensure Character Encoding: Set the character encoding to UTF-8 in the meta tag.

Form Validation: Add required attribute to input fields to ensure they are filled out before submission.

Handle Form Submission: When the form is submitted, the data is sent to "AuctionServlet" for further processing.



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## 3. AuctionItem.java

- Define a class named AuctionItem.
- Declare private instance variables
- Define Getter and Setter Methods

## 4. AuctionServlet.java

- Import Servlet Packages
- Define Servlet Class
- Handle POST Request
- Retrieve Form Data
- Set Request Attribute
- Forward Request

## Code:

### 1. Index.jsp

```
2. <%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
    <!DOCTYPE html>
    <html lang="en">
    <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Bid Submitted</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #ffdd00; /* Yellow background */
            margin: 0;
            padding: 0;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            text-align: center;
        }
        .container {
            background-color: #000; /* Black background */
            color: #ffdd00; /* Yellow text */
            padding: 20px;
            border-radius: 5px;
            display: inline-block;
        }
        h1 {
            color: #000; /* Black text */
        }
```

```

    }
    .details {
        border: 2px solid #ffdd00; /* Yellow border */
        padding: 10px;
        margin-top: 15px;
        display: inline-block;
        text-align: left;
    }
    .details p {
        margin: 10px 0;
    }
}
</style>
</head>
<body>
<div class="container">
    <h1>Bid Submitted</h1>
    <p>Your bid is now active. If your bid is successful, you
    will be notified within 24 hours of the close of bidding.</p>
    <div class="details">
        <p><strong>Item:</strong> <%=
request.getParameter("itemName") %></p>
        <p><strong>Item ID:</strong> <%=
request.getParameter("itemID") %></p>
        <p><strong>Name:</strong> <%=
request.getParameter("yourName") %></p>
        <p><strong>Email address:</strong> <%=
request.getParameter("email") %></p>
        <p><strong>Bid price:</strong> Rs<%=
request.getParameter("amountBid") %></p>
        <p><strong>Auto-increment price:</strong> <%=
request.getParameter("autoIncrement") != null ? "true" : "false"
%></p>
    </div>
</div>
</body>
</html>

```

### 3. auctionFome.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>AP Auctions - Enter Bid</title>
    <style>

```



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```
body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f4;
  margin: 0;
  padding: 0;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
}
.container {
  background-color: white;
  padding: 20px;
  border-radius: 5px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
h2 {
  color: #333;
  text-align: center;
}
form {
  display: flex;
  flex-direction: column;
  width: 300px;
}
label {
  margin-top: 10px;
}
input[type="text"],
input[type="email"],
input[type="number"] {
  padding: 8px;
  margin-top: 5px;
  border-radius: 4px;
  border: 1px solid #ddd;
  box-sizing: border-box; /* Added to maintain width */
}
input[type="checkbox"] {
  margin-top: 15px;
}
button {
  background-color: #5cb85c;
  color: white;
  padding: 10px 15px;
  margin-top: 20px;
  border: none;
  border-radius: 4px;
  cursor: pointer;
}
button:hover {
```

```
        background-color: #4cae4c;
    }
</style>
</head>
<body>
<div class="container">
    <h2>Welcome to AP Auctions. Please Enter Bid.</h2>
    <form action="AuctionServlet" method="post">
        <label for="itemID">Item ID:</label>
        <input type="text" id="itemID" name="itemID" required>

        <label for="itemName">Item Name:</label>
        <input type="text" id="itemName" name="itemName" required>

        <label for="yourName">Your Name:</label>
        <input type="text" id="yourName" name="yourName" required>

        <label for="email">Your Email Address:</label>
        <input type="email" id="email" name="email" required>

        <label for="amountBid">Amount Bid:</label>
        <input type="number" id="amountBid" name="amountBid"
required>

        <label for="autoIncrement">Auto-increment bid to match other
bidders?</label>
        <input type="checkbox" id="autoIncrement"
name="autoIncrement">

        <button type="submit">Submit Bid</button>
    </form>
</div>
</body>
</html>
```

#### 4. AuctionItem.

```
package com.auction;

public class AuctionItem {
    private String itemId;
    private String itemName;
    private String bidderName;
    private String bidderEmail;
    private double bidAmount;
    private boolean autoIncrement;

    public String getItemId() {
        return itemId;
    }
}
```



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```
}

public void setItemId(String itemId) {
    this.itemId = itemId;
}

public String getItemName() {
    return itemName;
}

public void setItemName(String itemName) {
    this.itemName = itemName;
}

public String getBidderName() {
    return bidderName;
}

public void setBidderName(String bidderName) {
    this.bidderName = bidderName;
}

public String getBidderEmail() {
    return bidderEmail;
}

public void setBidderEmail(String bidderEmail) {
    this.bidderEmail = bidderEmail;
}

// Getters and Setters for bidAmount
public double getBidAmount() {
    return bidAmount;
}

public void setBidAmount(double bidAmount) {
    this.bidAmount = bidAmount;
}

// Getters and Setters for autoIncrement
public boolean isAutoIncrement() {
    return autoIncrement;
}

public void setAutoIncrement(boolean autoIncrement) {
    this.autoIncrement = autoIncrement;
}
}
```



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## 5. AuctionServlet.java

```
package com.auction;

import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;

public class AuctionServlet extends HttpServlet {
    public void doPost(HttpServletRequest request,
        HttpServletResponse response) throws ServletException, IOException {
        AuctionItem item = new AuctionItem();
        item.setItemId(request.getParameter("itemID"));
        item.setItemName(request.getParameter("itemName"));
        item.setBidderName(request.getParameter("yourName"));
        item.setBidderEmail(request.getParameter("email"));

        item.setBidAmount(Double.parseDouble(request.getParameter("amountBid
        ")));
        item.setAutoIncrement(request.getParameter("autoIncrement")
        != null);

        request.setAttribute("auctionItem", item);
        request.getRequestDispatcher("index.jsp").forward(request,
        response);
    }
}
```



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## Result/Output:

Welcome to AP Auctions. Please Enter Bid.

Item ID:

21BCS9217

Item Name:

Shree Ram

Your Name:

Sachin Kumar Singh

Your Email Address:

21BCS9217@cuchd.in

Amount Bid:

7061146665

Auto-increment bid to match other bidders?

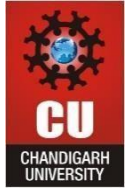


Submit Bid

Your bid is now active. If your bid is successful, you will be notified within 24 hours of the close of bidding.

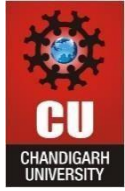
**Item:** Shree Ram  
**Item ID:** 21BCS9217  
**Name:** Sachin Kumar Singh  
**Email address:** 21BCS9217@cuchd.in  
**Bid price:** Rs7061146665  
**Auto-increment price:** true





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