Subject: Advanced Java (01CT1623)	**Aim:** JSP program to demonstrate arithmetic operations.	
Experiment No:- 07	**Date:-**	**Enrollment No:-** 92200133030

Objective:- JSP program to demonstrate arithmetic operations.

Code :-

index.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8" %>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Arithmetic Operations</title>

    <!-- Import Poppins Font -->
    <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600&display=swap"
rel="stylesheet">

    <style>
        /* General Styling */
        * {
            margin: 0;
            padding: 0;
            box-sizing: border-box;
        }

        body {
            font-family: 'Poppins', sans-serif; /* Applying Poppins font */
            background: linear-gradient(135deg, #74EBD5, #ACB6E5);
            min-height: 100vh;
            display: flex;
            justify-content: center;
            align-items: center;
        }

        .container {
            background: #ffffff;
            width: 90%;
            max-width: 600px;
            border-radius: 12px;
            box-shadow: 0 10px 30px rgba(0, 0, 0, 0.2);
            padding: 30px;
            text-align: center;
            transition: 0.3s ease;
        }

        .container:hover {
            box-shadow: 0 15px 40px rgba(0, 0, 0, 0.3);
        }
```

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```css
h2 {
    font-size: 30px;
    color: #333;
    margin-bottom: 20px;
    font-weight: 600;
}

form {
    display: flex;
    flex-direction: column;
    gap: 15px;
}

label {
    font-weight: 500;
    color: #555;
    text-align: left;
    font-size: 16px;
}

input, select, button {
    width: 100%;
    padding: 12px;
    border: 1px solid #ccc;
    border-radius: 8px;
    font-size: 16px;
    transition: 0.3s;
    font-family: 'Poppins', sans-serif;  /* Poppins for form elements */
}

input:focus, select:focus {
    outline: none;
    border-color: #4CAF50;
    box-shadow: 0 0 8px #4CAF50;
}

button {
    background: #4CAF50;
    color: white;
    border: none;
    cursor: pointer;
    font-size: 18px;
    font-weight: 500;
    transition: 0.3s;
}

button:hover {
    background: #45a049;
}
```

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```css
        .result {
            margin-top: 20px;
            padding: 20px;
            border-radius: 8px;
            box-shadow: 0 5px 15px rgba(0, 0, 0, 0.1);
            background: #f4f4f4;
            transition: 0.3s ease;
        }

        .result:hover {
            box-shadow: 0 8px 25px rgba(0, 0, 0, 0.2);
        }

        .result h3 {
            color: #333;
            font-size: 24px;
            margin-bottom: 10px;
            font-weight: 500;
        }

        .result p {
            font-size: 20px;
            color: #007BFF;
            font-weight: 400;
        }

        .error {
            color: red;
            font-weight: bold;
        }

        /* Responsive Styling */
        @media (max-width: 768px) {
            .container {
                width: 95%;
                padding: 20px;
            }
        }
    </style>
</head>

<body>

<div class="container">
    <h2>Arithmetic Operations</h2>

    <!-- Form for arithmetic operations -->
    <form method="post" action="index.jsp">
        <label>Enter First Number:</label>
```

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```
    <input type="number" name="num1" required>

    <label>Enter Second Number:</label>
    <input type="number" name="num2" required>

    <label>Select Operation:</label>
    <select name="operation">
        <option value="add">Addition (+)</option>
        <option value="subtract">Subtraction (-)</option>
        <option value="multiply">Multiplication (*)</option>
        <option value="divide">Division (/)</option>
    </select>

    <button type="submit">Calculate</button>
</form>

<%
    // Handling form submission
    String num1Str = request.getParameter("num1");
    String num2Str = request.getParameter("num2");
    String operation = request.getParameter("operation");

    if (num1Str != null && num2Str != null && operation != null) {
        try {
            double num1 = Double.parseDouble(num1Str);
            double num2 = Double.parseDouble(num2Str);
            double result = 0;
            String message = "";

            switch (operation) {
                case "add":
                    result = num1 + num2;
                    message = "Addition";
                    break;
                case "subtract":
                    result = num1 - num2;
                    message = "Subtraction";
                    break;
                case "multiply":
                    result = num1 * num2;
                    message = "Multiplication";
                    break;
                case "divide":
                    if (num2 != 0) {
                        result = num1 / num2;
                        message = "Division";
                    } else {
                        message = "Division by zero is not allowed!";
                    }
                    break;
```

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```
            default:
                message = "Invalid Operation";
            }
    %>
    <div class="result">
        <h3>Operation: <%= message %></h3>
        <p>Result: <strong><%= result %></strong></p>
    </div>
    <%
        } catch (NumberFormatException e) {
    %>
    <div class="result error">
        <p>Invalid input. Please enter valid numbers.</p>
    </div>
    <%
        }
    }
    %>
</div>

</body>
</html>
```
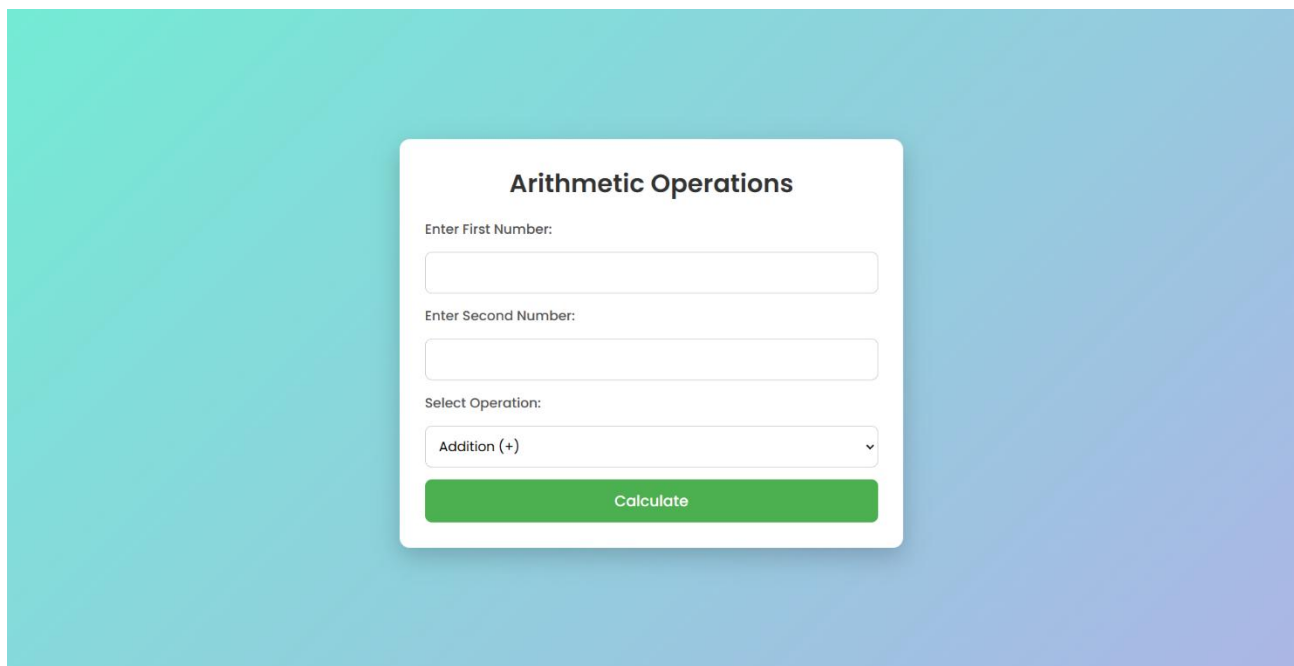
Output:-

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Arithmetic Operations

Enter First Number:

Enter Second Number:

Select Operation:

Addition (+)

Calculate

Operation: Addition
Result: **15.0**

Arithmetic Operations

Enter First Number:

Enter Second Number:

Select Operation:

Addition (+)

Calculate

Operation: Subtraction
Result: **-5.0**