# WEB TECHNOLOGY LAB

#### LAB-4

Design and develop a responsive website to calculate Electricity bill using SpringBoot. Condition for first 50 units – Rs. 3.50/unit, for next 100 units – Rs. 4.00/unit, for next 100 units – Rs. 5.20/unit and for units above 250 – Rs. 6.50/unit.

Shruti Ajaykumar Singh

TY-CD-D2

Roll No - 25

PRN - 12010587

Batch - 2

## CODE:

#### index.html

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>Electricity Bill Calculator</title>
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.</pre>
css">
</head>
<body>
    <div class="container">
        <h1 class="my-4">Electricity Bill Calculator</h1>
        <form id="electricity-bill-form">
            <div class="form-group">
                <label for="units">Enter Units Consumed:</label>
                <input type="number" class="form-control" id="units" name="units"</pre>
placeholder="Enter units">
            </div>
            <button type="submit" class="btn btn-primary">Calculate
                Bill</button>
        </form>
        <div id="bill-amount"></div>
    </div>
    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
    <script>
```

```
$(document).ready(function () {
            $('#electricity-bill-form').submit(function (event) {
                event.preventDefault();
                $.ajax({
                    type: 'POST',
                    url: '/calculate-bill',
                    data: $(this).serialize(),
                    success: function (response) {
                        $('#bill-amount').html('Your bill amount is Rs. ' + response);
 }
                });
            });
        });
    </script>
</body>
</html>
BillController.java
package com.example.demo;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.ResponseBody;\
@Controller
public class BillController {
    @GetMapping("/electricity-bill")
    public String showElectricityBillPage() {
```

```
return "electricity-bill";
    @PostMapping("/calculate-bill")
    @ResponseBody
    public String calculateElectricityBill(@RequestParam("units") int units) {
    double billAmount = 0.0;
    if (units <= 50) {</pre>
        billAmount = units * 3.50;
        } else if (units <= 150) {</pre>
        billAmount = 50 * 3.50 + (units - 50) * 4.00;
        } else if (units <= 250) {</pre>
        billAmount = 50 * 3.50 + 100 * 4.00 + (units - 150) * 5.20;
        } else {
        billAmount = 50 * 3.50 + 100 * 4.00 + 100 * 5.20 + (units - 250) * 6.50;
        return String.format("%.2f", billAmount);
Lab4Application.java
package com.example.demo;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class Lab4Application {
    public static void main(String[] args) {
        SpringApplication.run(Lab4Application.class, args);
```

## **OUTPUT:**

