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Experiment Number: 05

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. You can make the use of bootstrap as well as jQuery.

Html code

```
<!DOCTYPE html>
<a href="http://www.thymeleaf.org">
<head>
    <title>Electricity Bill Calculator</title>
    <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.
            integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
            crossorigin="anonymous"/>
    <link rel="stylesheet" th:href="@{/style.css}"/>
    </style>
</head>
 body>
 div class="container">
    <h2>Electricity Bill Generator</h2>
    <h4 class="my-4">Generate your bill here</h4>
    <form method="post" th:action="@{/}">
         <div class="form-group my-3">
                         <label for="units">Enter Total Units Consumed:</label>
                         <input type="number" class="form-control my-3" id="units"</pre>
name="units" required>
```

```
</div>
          <button type="submit" class="btn btn-primary" id =</pre>
"calculate-btn">Calculate</button>
    </form>
    <br/>br>
</div>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script>
$(document).ready(function() {
$('#billForm').submit(function(event) {
event.preventDefault();
var units = parseInt($('#units').val());
if (units \le 0 || is NaN(units)) {
alert('Please enter a valid number of units consumed.');
return;
this.submit();
});
});
</script>
</body>
 </html>
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
 <title>Electricity Bill Calculator</title>
 <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.
```

css"

Output.html

```
integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
         crossorigin="anonymous">
</head>
<body>
<div class="container">
 <div class="row mt-5">
   <div class="col-md-6 offset-md-3">
      <h1 class="text-center mb-4">Electricity Bill</h1>
      <div class="card">
         <div class="card-body">
            <div class="alert alert-success" id =</pre>
"alerticon"><strong>Electricity Bill: </strong>Rs <span
                      th:text="${bill}"></span></div>
</body>
 </html>
```

Electricity Calculator

```
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestParam;

@Controller
public class ElectricityController {
```

```
@GetMapping("/")
public String showForm() {
@PostMapping("/")
public String calculateBill(@RequestParam("units") int units, Model
           model) {
     if (units <= 50) {
      } else if (units <= 150) {</pre>
      } else if (units <= 250) {
     model.addAttribute("bill", bill);
```

Output:





