CA3 Assignment(KE014B37)
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Problem Statement: You are required to print electricity bill for the no of unit. Units must be given as an input by the user, it will print the electricity bill using:

   i. For first 50 units, it will charge Rs 9 per unit
   ii. ii. For next 50 units, it will charge Rs 12 and
   iii. iii. Above it, it will charge Rs 15.

Description: User need to enter the number of units consumed and After Entering the submit button , for the first 50 units it is calculated for Rs 9 per unit and after the 50 unit till 100 unit it is calculated for Rs 12 per unit and after 100 unit it is calculated for Rs15 per unit.

For E.g.: If the user Enter 200 Unit then After clicking on the submit button
For the first 50 unit = (50*9) = Rs450
For the next 50 unit = (50*12) = Rs600
And Remaining 100 unit = (100*15) = Rs1500
So,
Total Electricity bill is Rs450+Rs600+Rs1500 = Rs2550

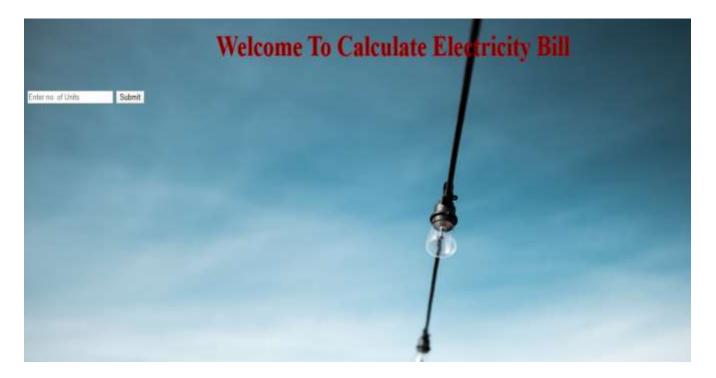**GitHub link:** https://github.com/Rishab427/opensource

Assignment Code:

```
<!DOCTYPE html>

<head>
        <title>Calculate Electricity Bill</title>
</head>

<?php
$result_str = $result = '';
$hel='';
$hel1=$Rate=$Rate1=$Rate2=$Rate3=$f = '';
if (isset($_POST['unit-submit'])) {
   $units = $_POST['units'];
```

```php
    if (!empty($units)) {
        $result = calculate_bill($units);
        $hel = "-------------------------------------------------------------Your Bill Has been Caluclated----------------------------------------------------------";


        $Rate ="*********************Bill Has been Calculate as per the following rates :********************* ";
        $Rate1 = "For The First 50 Units It Has Been Charged ₹9 per Unit ";
        $Rate2 = "For The Next 50 Units It Has Been Charged ₹12 per Unit ";
        $Rate3 = "And After 100 units It Has Been Charged ₹15 per Unit";
        $hel1 = "Your Bill Details For $units units are : ";
        $f = "        Thank You , And Please Pay Your Bill On Time -)";
        $result_str = 'Total amount of ' . $units . ' Unit Is'.' ========= '.'₹ ' . $result;
    }
}
function calculate_bill($units) {
    $first = 9.00;
    $second = 12.00;
    $third = 15.00;

    if($units <= 50) {
        $bill = $units * $first;
    }
    else if($units > 50 && $units <= 100) {
        $temp = 50 * $first;
        $remaining_units = $units - 50;
        $bill = $temp + ($remaining_units * $second);
    }
    else if($units > 100 ) {
        $temp = (50 * $first) + (50 * $second);
        $remaining_units = $units - 100;
        $bill = $temp + ($remaining_units * $third);
    }

    return number_format((float)$bill, 2, '.', '');
}

?>
<style>
body
```

```css
    {
        background-image:url("bulb2.jpg");
        background-size: 1420px 720px;
        background-repeat: no-repeat;
        font-size: 140%;
    }
    h1 {
        text-shadow: 0 0 3px #FF0000;
    }

</style>



<body>
        <div id="page-wrap">
                <h1 style="color:maroon;"><center><marquee><b>Welcome To Calculate
Electricity Bill</b></center></marquee></h1>
                <form action="" method="post" id="quiz-form">
                <input type="number" name="units" id="units" placeholder="Enter no. of
Units"  />
                <input type="submit" name="unit-submit" id="unit-submit"
value="Submit" />
                </form>


                <div>
        <?php
        echo "<br />";

        echo "<br />";
        echo "<b><i>$Rate</i><b>";
        echo "<br />";
        echo "<b><i>$Rate1</i><b>";
        echo "<br />";
        echo "<b><i>$Rate2</i><b>";
        echo "<br />";
        echo "<b><i>$Rate3</i><b>";
        echo "<br />";
        echo "<br />";
        echo "<br />";
```
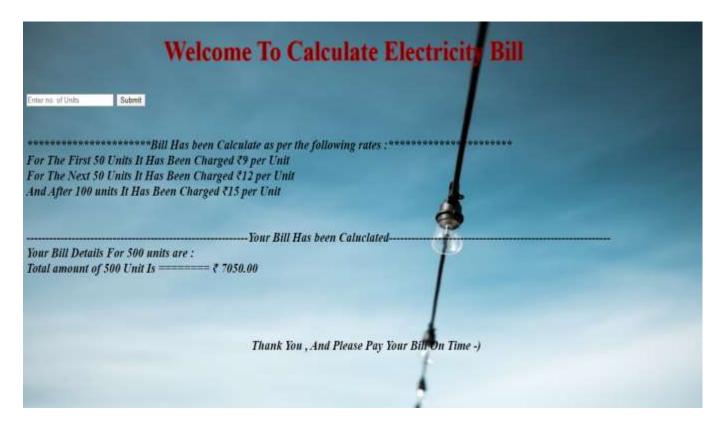
```php
echo "<b><i>$hel</i><b>";
echo "<br />";
echo "<b><i>$hel1</i><b>";
echo "<br />";
echo "<b><i>$result_str</i><b>";
echo "<br />";
echo "<br />";
echo "<br />";
echo "<br />";
echo "<br />";
echo "<b><i><center>$f</center></i><b>";
?>

            </div>
        </div>
</body>
</html>
```

Test Cases with Snapshot:

In the Above Figure User need To Enter the Total Number of Units Consumed and Calculate the Electricity Bill.

After Entering The Number of Unit based on the formulae Electricity bill is generated.

Welcome To Calculate Electricity Bill

Enter no. of Units   Submit

**************************Bill Has been Calculate as per the following rates :***********************
For The First 50 Units It Has Been Charged ₹9 per Unit
For The Next 50 Units It Has Been Charged ₹12 per Unit
And After 100 units It Has Been Charged ₹15 per Unit

--Your Bill Has been Caluclated--
Your Bill Details For 500 units are :
Total amount of 500 Unit Is ======== ₹ 7050.00

Thank You , And Please Pay Your Bill On Time -)

For E.g.: If the user Enter 200 Unit then After clicking on the submit button
For the first 50 unit = (50*9) = Rs450
For the next 50 unit = (50*12) = Rs600
And Remaining 100 unit = (400*15) = Rs6000
So,
Total Electricity bill is Rs450+Rs600+Rs6000 = Rs7050

Hence, As per the unit Submit i.e. 500 unit so Final Bill Generated is Rs 7050.