

## WPL - Pgm 16

### WPL PG-16.php

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>Electricity Bill Calculator</title>
```

```
    <style>
```

```
        body { font-family: Arial, sans-serif; margin: 20px; background-color:
        #f0f0f0; }
```

```
        .container { max-width: 400px; margin: 0 auto; background-color: #fff;
        padding: 25px; border-radius: 8px; box-shadow: 0 0 10px rgba(0,0,0,0.1); }
```

```
        h1 { color: #007bff; text-align: center; border-bottom: 2px solid #ccc;
        padding-bottom: 10px; margin-bottom: 20px; }
```

```
        label { display: block; margin-bottom: 5px; font-weight: bold; }
```

```
        input[type="text"], input[type="number"] { width: 100%; padding: 8px;
        margin-bottom: 15px; border: 1px solid #ccc; border-radius: 4px; box-sizing:
        border-box; }
```

```
        input[type="submit"] { background-color: #28a745; color: white; padding:
        10px 15px; border: none; border-radius: 4px; cursor: pointer; width: 100%; }
```

```
        .result { margin-top: 20px; padding: 15px; border: 1px solid #007bff;
        background-color: #e6f7ff; border-radius: 4px; }
```

```
        .result h2 { color: #dc3545; margin-top: 0; }
```

```
    </style>
```

```
</head>
```

```
<body>
```

```
<?php
```

```
$consumer_name = "";
```

```
$units_used = 0;
```

```
$total_bill = 0;
```

```
$result_display = "";
```

```

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $consumer_name = htmlspecialchars($_POST['consumer_name'] ?? "");
    $units_used = (int)($_POST['units_used'] ?? 0);
    $rate_tier1 = 5.00;
    $rate_tier2 = 7.50;
    $rate_tier3 = 10.00;
    if ($units_used <= 0) {
        $result_display = "Please enter a valid number of units consumed.";
    } elseif ($units_used <= 100) {
        $total_bill = $units_used * $rate_tier1;
    } elseif ($units_used <= 200) {
        $cost_tier1 = 100 * $rate_tier1;
        $remaining_units = $units_used - 100;
        $cost_tier2 = $remaining_units * $rate_tier2;
        $total_bill = $cost_tier1 + $cost_tier2;
    } else {
        $cost_tier1 = 100 * $rate_tier1;
        $cost_tier2 = 100 * $rate_tier2;
        $remaining_units = $units_used - 200;
        $cost_tier3 = $remaining_units * $rate_tier3;
        $total_bill = $cost_tier1 + $cost_tier2 + $cost_tier3;
    }
    $total_bill_formatted = number_format((float)$total_bill, 2);
    if ($units_used > 0) {
        $result_display = "<div class='result'>";
        $result_display .= "<h2>Bill Details</h2>";
        $result_display .= "<p><strong>Consumer:</strong> " . $consumer_name
        . "</p>";
        $result_display .= "<p><strong>Units Used:</strong> " . $units_used . "
        units</p>";
    }
}

```

```

    $result_display .= "<p><strong>Total Amount Due:</strong> <span
style='font-size: 1.2em; color: #dc3545;'>Rs. " . $total_bill_formatted .
"</span></p>";

    $result_display .= "</div>";

}

}

?>

<div class="container">

    <h1>Electricity Bill Calculator</h1>

    <div style="margin-bottom: 20px; padding: 10px; border: 1px dashed #ffa07a;
border-radius: 4px; font-size: 0.9em;">

        <strong>Tariff:</strong><br>

        1 - 100 units: Rs. 5.00/unit<br>

        101 - 200 units: Rs. 7.50/unit<br>

        201+ units: Rs. 10.00/unit

    </div>

    <form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">

        <label for="consumer_name">Consumer Name</label>

        <input type="text" id="consumer_name" name="consumer_name" required
        value="<?php echo htmlspecialchars($consumer_name); ?>"
placeholder="Enter name">

        <label for="units_used">Units Consumed</label>

        <input type="number" id="units_used" name="units_used" required
min="0"

        value="<?php echo htmlspecialchars($units_used); ?>"
placeholder="Enter total units">

        <input type="submit" value="Calculate Bill">

    </form>

    <?php echo $result_display; ?>

```

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

## Output

### Electricity Bill Calculator

**Tariff:**  
1 - 100 units: Rs. 5.00/unit  
101 - 200 units: Rs. 7.50/unit  
201+ units: Rs. 10.00/unit

**Consumer Name**

**Units Consumed**

**Bill Details**  
**Consumer:** Faseeh  
**Units Used:** 273 units  
**Total Amount Due:** Rs. 1,980.00