MD MUSFIQUR RAHMAN

<head>

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011221334
OS1
BMI
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>QS1</title>
</head>
<body>
Height (cm): <input type="text" id="txt1"><br>
Weight (lb): <input type="text" id="txt2"><br>
<button onclick="calculate()">Calculate </button><br>
Calculate Result: <label id="lbl1"></label>
<hr>
Status: <label id="lbl2"></label>
<script>
function calculate() {
let height = Number(document.getElementById("txt1").value);
let weight = Number(document.getElementById("txt2").value);
let CalResult = (weight / 2.20462) / ((height / 100) * (height / 100));
document.getElementById("lbl1").innerText = CalResult.toFixed(3);
let status = "";
if (CalResult > 0 && CalResult < 20) {
status = "Bad";
} else if (CalResult >= 20 && CalResult < 30) {
status = "not Bad";
} else if (CalResult >= 30) {
status = "good";
document.getElementById("lbl2").innerText = status;
</script>
</body>
</html>
QS2
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>User Info</title>
</head>
<body>
<form method="POST" action="">
Seed Value: <input type="text" name="seed" required><br>
Terms: <input type="number" name="terms" required><br>
<input type="submit" value="Generate Sequence">
</form>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
$seed = (int) $_POST['seed'];
$terms = (int) $_POST['terms'];
$sequence = [];
$current = $seed;
for (\$i = 0; \$i < \$terms; \$i++) {
$sequence[] = $current;
$sum = 0:
$digits = str_split((string)$current);
foreach ($digits as $d) {
$sum += (int)$d;
$current += $sum;
echo "<h3>Generated Sequence (Sum of digits):</h3>";
echo implode(", ", $sequence);
?>
</body>
</html>
OS3
BIL.html
<!DOCTYPE html>
<html>
```

```
<title>Electricity Bill Calculator</title>
</head>
<body>
<h2>Electricity Bill Form</h2>
<form method="POST" action="bill.php">
<label>Location:</label>
<select name="location" required>
<option value="Dhaka">Dhaka</option>
<option value="Chittagong">Chittagong</option>
</select><br><br>
<label>Area:</label><br>
<input type="radio" name="area" value="Urban" required> Urban
<input type="radio" name="area" value="Rural"> Rural<br><br>
<label>Unit Consumed:</label>
<input type="number" name="unit" required><br><br>
<input type="submit" value="Calculate Bill">
</form>
</body>
</html>
Bil.php
<?php
// DB Connection using variables
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "electricty_bill";
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
  die("Connection failed: " . $conn->connect_error);
// Get POST data
$location = $ POST['location'];
$area = $_POST['area'];
$unit = (int)$_POST['unit'];
// Fetch rate for location and area
$sql = "SELECT * FROM bill_info WHERE location='$location' AND
area='$area'";
$result = $conn->query($sql);
if ($result->num rows > 0) {
$row = $result->fetch_assoc();
// Get appropriate rate based on unit range
if ($unit <= 75) {
$rate = $row['rate_0_75'];
} elseif ($unit <= 200) {
$rate = $row['rate_76_200'];
} else {
$rate = $row['rate_201_above'];
$base_bill = $unit * $rate;
// Apply tax
tax_rate = 0;
if ($location == "Dhaka") {
$tax_rate = 0.20;
} elseif ($location == "Chittagong") {
$tax rate = 0.15;
$tax_amount = $base_bill * $tax_rate;
$total bill = $base bill + $tax amount;
// Output the result
echo "<h2>Electricity Bill</h2>";
echo "Your Location: <strong>$location</strong><br>";
echo "Your Area: <strong>$area</strong><br>";
echo "Unit Consumed: <strong>$unit</strong><br>";
echo "Total Bill (including tax): <strong>" . number_format($total_bill, 2) . "
BDT</strong>";
} else {
echo "No rate found for location '$location' and area '$area'.";
Sconn->close():
DATABSE Insert
INSERT INTO employess (email, phone_number, hire_date, job_id, salary)
('SKING', '515.123.4567', '1987-06-17', 'AD_PRES', 24000.00),
```

Database Update

UPDATE employee

```
SET salary = salary * 1.175
                                                                                  // Conditionals
WHERE join_date = (SELECT MAX(join_date) FROM employee);
                                                                                  if (age >= 18) {
UPDATE employess
                                                                                   console.log("Adult");
SET salary = salary *(0.9) //(1-10/100)
                                                                                   console.log("Minor");
WHERE salary>10000;
UPDATE employess
SET salary = salary * (0.9) //(1+10/100)
                                                                                 // Loops
                                                                                 for (let i = 0; i < 5; i++) {
WHERE salary<=10000;
DB CRUD
                                                                                   console.log(i);
<?php
// DB Connection using variables
$servername = "localhost";
                                                                                 // Arrays
                                                                                  let fruits = ["apple", "banana", "cherry"];
$username = "root";
                                                                                  console.log(fruits[0]); // apple
$password = "";
$dbname = "your_database_name"; // Change this to your DB name
                                                                                  // Objects
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
                                                                                  let person = {
die("Connection failed: " . $conn->connect_error);
                                                                                  name: "Alice".
                                                                                   age: 30,
// 1. INSERT Example
                                                                                  };
$sql_insert = "INSERT INTO employess (email, phone_number, hire_date,
                                                                                  console.log(person.name); // Alice
job_id, salary)
VALUES ('john@example.com', '1234567890', '2025-07-10', 'DEV001',
                                                                                  // Events (in browser)
                                                                                  document.getElementById("btn").onclick = function () {
15000)";
                                                                                   alert("Button clicked!");
if ($conn->query($sql_insert) === TRUE) {
echo "New record inserted successfully.<br>";
                                                                                  PHP
echo "Error inserting record: " . $conn->error . "<br>";
                                                                                  <?php
                                                                                  // Variables
// 2. UPDATE Example
                                                                                  $name = "John";
$sql_update = "UPDATE employess SET salary = 18000 WHERE id = 1";
                                                                                  $age = 25;
if ($conn->query($sql_update) === TRUE) {
                                                                                  pi = 3.14;
echo "Record updated successfully.<br>";
} else {
echo "Error updating record: " . $conn->error . "<br>";
                                                                                  // Echo output
                                                                                  echo "Hello, " . $name . "!<br>";
// 3. DELETE Example
                                                                                 // Functions
$sql_delete = "DELETE FROM employess WHERE id = 2";
                                                                                  function greet($user) {
if ($conn->query($sql delete) === TRUE) {
echo "Record deleted successfully.<br>";
                                                                                    return "Hello, " . $user . "!";
} else {
echo "Error deleting record: " . $conn->error . "<br>";
                                                                                  echo greet("Alice");
// 4. SELECT (Fetch) Example
                                                                                 // Conditionals
$sql_select = "SELECT * FROM employess";
                                                                                  if ($age >= 18) {
$result = $conn->query($sql select);
                                                                                    echo "Adult<br>";
if ($result->num_rows > 0) {
                                                                                  } else {
echo "";
echo "IDEmailPhone NumberHire
                                                                                    echo "Minor<br>";
DateJob IDSalary";
while ($row = $result->fetch_assoc()) {
echo "
                                                                                 // Loops
" . $row["id"] . "
                                                                                 for (\$i = 0; \$i < 5; \$i++) {
" . $row["email"] . "
                                                                                    echo $i . "<br>";
" . row["phone_number"] . "
". $row["hire date"]. "
" . $row["job_id"] . "
                                                                                  // Arravs
                                                                                  $fruits = array("apple", "banana", "cherry");
" . $row["salary"] . "
";
                                                                                  echo $fruits[0]; // apple
                                                                                  // Associative Arrays (like objects)
echo "";
} else {
                                                                                  $person = array(
                                                                                    "name" => "Alice",
echo "No records found.";
                                                                                    "age" => 30
$conn->close();
?>
                                                                                  echo $person["name"]; // Alice
JS
// Declare variables
                                                                                  // Superglobals (to get form data)
                                                                                  $name = $_POST['name'] ?? ";
let name = "John";
                                                                                  echo "Form input: " . $name;
                                                                                  ?>
var age = 25; // old way, avoid if possible
// Functions
function greet(user) {
```

return "Hello, " + user + "!";