UNITED INTERNATIONAL UNIVERSITY

Final Exam | Spring 2024

CSE 4165/CSE 465 Web Programming

| | Mark: 30 Time: 2 Hours (including submission) | | | | | | |
|----|---|---|-----------------------------------|--------------------|-----------------------|------------------|------|
| | NAME: | | ID: | | | | |
| | Return the | question to the invigilate | | • | • | _ | will |
| | | | | Ŭ 1 | JIU disciplinary rule | | |
| 1. | and weight | Tavascript: Write a javascript program to calculate the formula given below. First, take height in centimetre(cm) and weight in pounds(lb), convert, calculate, and display results in the inner html. Weight in KG Calculation Result = Weight in KG | | | | | |
| | | $-\frac{\text{Height in metr}}{\text{Height in metr}}$ | • | rimetre | | | |
| | Formula to | convert centrimetre to met | re: metre= | 100 | | | |
| | Formula to | convert pound to KG: K | $G = \frac{\text{pound}}{2.2046}$ | | | | |
| | | lation result is greater than ad", for greater than 30, s | n 0 and less than | | s "bad", greater than | 20 to 30, show a | |
| | | Height (| cm): 177.8 | | | | |
| | | Weight (| (lb): 178.574 | 50 | | | |
| | | | Calculate | e | | | |
| | | | Calculation Re | sult: 25.85 | | | |
| | | | Status: not ba | d | | | |
| 2. | PHP: Create | 0-45 (1885) (1885) (1885) (1885) (1885) (1885) (1885) (1885) (1885) (1885) (1885) (1885) (1885) (1885) (1885) | | | | | [10] |
| | | follow these rules: | | | | | |
| | | 1. The first number is the seed itself. | | | | | |
| | | 2. For each subsequent number in the sequence, take the previous number and add the product of its digits. | | | | | |
| | _ | Repeat this process for a specified number of terms. | | | | | |
| | | rite a PHP program that takes a seed value and the number of terms as input and generates the cryptic | | | | | |
| | sequence b | e based on the rules above. Display the sequence in a comma-separated format. | | | | | |
| | | Sample Inp | out | | ole Output | | |
| I | | Seed value: 7 Terms: 5 | | 7, 14, 19, 29, 40 | | | |
| | | Seed value: 4 | | 4, 8, 16, 23, 28, | 38. 49. 62. 70 | | |
| | | Terms: 9 | | ., -,,, | ,,, | | |
| 3. | The web applocation, are | IP&MYSQL: Design and write the following web application using php and all other supporting languages. e web app will implement an electricity bill calculation system. The bills will vary depending on a consumer's ation, area, and quantity consumed unit. First, create an <i>electricity_bill</i> database, and then create a <i>bill_info</i> le with the following fields: | | | | | |
| | | | # Name | Туре | | | |
| | | | 1 id 🔑 | int(11) | | | |
| | | | 2 location | varchar(100) | | | |
| | | | 3 area | varchar(100) | | | |
| 1 | | | 4 rate_0_75 | float | | | |
| | | | 5 rate_76_200 | float | | | |
| | | | 6 rate_201_abo | ve float | | | |

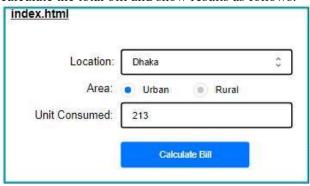
Fill the above table with the following billing/rate information:

| Location | Area | Rates (Unit=BDT) |
|------------|-------|--------------------|
| Dhaka | Urban | 0-75 = 4.19 |
| | | 76-200 = 5.72 |
| | | 201-above = 6.00 |
| | Rural | 0-75 = 3.19 |
| | | 76-200 = 4.72 |
| | | 201-above = 5.00 |
| Chittagong | Urban | 0-75 = 3.50 |
| | | 76-200 = 4.80 |
| | | 201-above = 5.23 |
| | Rural | 0-75 = 2.50 |
| | | 76-200 = 3.80 |
| | | 201-above = 4.23 |

Tax will be applied to the bill to calculate the final Total bill. Impose tax as follows:

| Location | Tax on bill |
|------------|-------------|
| Dhaka | 20% |
| Chittagong | 15% |

Now, create a *index.html* file and take all necessary input, such as location, area, and unit consumed, and then create a *bill.php* file to fetch necessary information from database based on inputs from index.html and calculate the total bill and show results as follows:





Example (MySQLi Object-oriented)

```
<?php
$servername = "localhost";
                                                            } else {
$username = "username";
                                                             echo "0 results";
$password = "password";
$dbname = "myDB";
                                                            $sql = "UPDATE MyGuests SET lastname='Doe' WHERE id=2";
$conn = new mysqli($servername, $username, $password,
$dbname);
                                                            if ($conn->query($sql) === TRUE) {
                                                              echo "Record updated successfully";
if ($conn->connect_error) {
  die("Connection failed: " . $conn->connect_error);
                                                            } else {
                                                              echo "Error updating record: " . $conn->error;
$sql = "INSERT INTO MyGuests (firstname, lastname,
email)
                                                             ______
VALUES ('John', 'Doe', 'john@example.com')";
                                                            $sql = "DELETE FROM MyGuests WHERE id=3";
if ($conn->query($sql) === TRUE) {
                                                            if ($conn->query($sql) === TRUE) {
  echo "New record created successfully";
                                                              echo "Record deleted successfully";
} else {
  echo "Error: " . $sql . "<br>>" . $conn->error;
                                                            } else {
  echo "Error deleting record: " . $conn->error;
$conn->close();
                -----
$sql = "SELECT id, firstname, lastname FROM MyGuests";
$result = $conn->query($sq1);
if ($result->num_rows > 0) {
  // output data of each row
 while($row = $result->fetch_assoc()) {
  echo "id: " . $row["id"]. " - Name: "
$row["firstname"]. " " . $row["lastname"]. "<br>";
```