United International University (UIU)

Dept. of Computer Science & Engineering (CSE)

Final Exam Year: 2025 Trimester: Summer

CSE 4165/CSE 465 Web Programming

Total Marks: 30 Duration: 2 Hours

Any examinee found adopting unfair means will be expelled from the trimester / program as per UIU disciplinary rules.

1. **[10]**

Create a JavaScript application where users can track their daily calorie intake and get real-time feedback on their eating habits.

Index.html:

Create a number input field to enter calories consumed per meal, a **"Add Calories"** button, and below that a label field to display total calories, daily goal progress, and feedback messages

Script.js:

1. Set a **daily calorie goal** of **2000 calories**.
2. Take the user's calorie input from the HTML file.
3. Inside a function:
   a) Add the entered calories to a running total.
   b) Display the **total calories consumed so far**.
   c) Display feedback messages based on progress:
      - 0–800 → "You're off to a healthy start!"
      - 801–1600 → "Good progress, keep it balanced!"
      - 1601–1999 → "Almost at your limit!"
      - 2000+ → "Goal reached! Stay mindful!"
   d) Keep track of the **number of entries** the user has made
   e) If the user logs calories **more than 10 times** without reaching the goal, display **"Be cautious of frequent snacking!"**

Sample Input (User Calorie Input)	Sample Output (Feedback)
300, 500, 700	Good progress, keep it balanced!
1000, 800, 300	Goal reached! Stay mindful!
12 entries, total 1500	Be cautious of frequent snacking!

2. **[10]**

You are managing a **movie night event** where you need to calculate how many screens to rent and how much money will be wasted due to empty seats. Write a PHP function that takes three integer inputs: the total number of people attending, the seating capacity of one screen, and the ticket price per seat. The function should calculate how many **complete screens** are needed to accommodate all people (you cannot book partial screens), and how many **empty seats** will remain after everyone is seated. Furthermore, each screen has a **fixed rental cost of 25,000 BDT**, and the amount of money wasted on empty seats must be calculated based on the ticket price multiplied by the number of unused seats. The output should display the total number of screens booked, total empty seats, and total wasted money.

Sample Input (from HTML fields)				Sample Output (print on PHP file)		
Attendees	**Seat Capacity**	**Ticket Price**		**Total Screens**	**Empty Seats**	**Wasted Money**
150	60	500		3	30	15,000
280	100	400		3	20	8,000
320	120	350		3	40	14,000

3. Create a database named **'sundarban'** and a table named **'sales_data'** with the following structure and values: **[10]**

SaleID	ProductName	CategoryID	CategoryName	Quantity	Revenue
1	Laptop	301	Electronics	5	350000
2	Mouse	301	Electronics	15	45000
3	Chair	302	Furniture	8	64000
4	Desk	302	Furniture	6	72000
5	Bottle	303	Accessories	20	30000
6	Pen	303	Accessories	25	20000

Now, do the following (write full PHP–MySQL code):

1. Display the **total revenue per category** from the database.
2. If a product's revenue is below **40,000 BDT**, update its category to **"Low Performing"**.
3. For all products generating more than **70,000 BDT**, add a **10% bonus revenue** to their total.
4. Display each **product's name** along with its **category name** and a label "**Top Seller**" if its revenue is above the average revenue of its own category. Otherwise, display "**Regular Seller**".