Class-Exercise

1) Campus ID Badge (HTML5 + CSS + basic JS math & strings)

Goal: Build an ID badge card. Use a **seed code** to compute a simple **check code** and display it.

Instructor seed: Give each team a short seed like CSE-27.

Students must:

- Extract only digits from the seed (e.g., 2 and 7) using **character inspection** (no arrays required—just charAt and Number),
- Compute checkCode = (sum of digits * 7) % 97,
- Display student name, department, and check code on the badge.

Constraints (anti-Al & within fundamentals):

- Only use **const/let**, simple **functions**, **if/else**, + * / %, string concatenation.
- **No loops** required (it's a very short seed).
- No libraries and no CSS frameworks.

Campus ID Badge	
Name	Priya Sharma
Dept	CSE
Seed	CSE-27
Check Code	63

2) Recipe Card — Per-Serving Calculator (HTML5 + CSS + basic JS numbers)

Goal: Show a semantic recipe card. JS computes **per-serving calories** and **macro** % from basic numbers.

Instructor seed: Provide **servings** value (e.g., 3 or 5) per team to change final outputs.

Requirements (fundamentals only):

- Variables for caloriesTotal, protein, carbs, fat (in grams).
- Use a **simple function** perServing(x) = x / servings.
- Compute macro calories with constants: 4 for protein/carbs, 9 for fat.
- Show per-serving calories and macro percentage using simple arithmetic and toFixed(1).

Protein Oats	
Servings	3
Per-Serving Calories	174 kcal
Protein %	23.0%
Carb %	46.0%
Fat %	31.0%

3) Theme Ticket — Price + Seeded Discount (HTML5 + CSS + basic JS conditionals)

Goal: Build a simple **ticket price card** that applies a **seeded discount** based on a rule (e.g., last digit of seed).

Instructor seed: e.g., TIX-946. Rule (students implement):

• Extract **last digit** from the seed.

Discount

- If it's $0-3 \rightarrow 5\%$ off; $4-6 \rightarrow 10\%$ off; $7-9 \rightarrow 15\%$ off.
- Compute **final price** for a **given quantity**.

Constraints: only variables, function, if/else, arithmetic, and toFixed(2).

Event Ticket Seed Base Price Qty

Total ₹1347.30

TIX-946

₹499.00

10%