Using Arrays | Lesson 3

Practice: Common Array Methods and Length

Instructions

You are working as a developer for a local café that needs a system to **track customer orders**. The café serves **drinks and pastries**, and orders are stored in a **2D array**, where each row represents a **category** (drinks or pastries), and each column represents an **order** within that category.

Your task is to **use the .length property to track the number of items** in the café's order system dynamically.

Tasks

Task 1: Create the Order System

Create a **multi-dimensional array** called orders with **two rows**:

- The first row stores **three drink orders** (e.g., "Latte", "Tea", "Espresso").
- The second row stores **three pastry orders** (e.g., "Croissant", "Muffin", "Bagel").

Task 2: Log the number of drinks and number of pastries by using .length on each row.

Task 3: Access Orders Using Bracket Notation

Use **bracket notation** to **log a specific drink and a specific pastry** using hardcoded numbers. For example, you might want to log the first drink and last pastry. Do this for three combinations.

Task 4: Access Orders Dynamically with Variables

Task 5: Write a loop that logs all the items in the drink category, ensuring the loop dynamically adjusts to the number of items using .length.

Task 6: Add a New Order & Track Length

Suppose a new order has been placed: a customer ordered a flat white. Add “flat white” to the drinks category dynamically. Log the updated number of drinks after the addition.

Declare two variables and use them with bracket notation to log the selected order dynamically.

Setup

For this activity, you will create your own repository to store your code:

1. Create a new repository.
2. Name it: practice-common-array-methods-[Your First Name]-[Your Last Initial]
3. Make sure the repository is public.
4. Clone the repository to your local machine.
5. Start working on the code.

Submission

Submit the url for your GitHub repo in the field below.