AI ASSIGNMENT:14.1

HTNO:2403A51284

BATCH:12

Task 1 – Portfolio Website Design

You are building a personal portfolio website to showcase your work. Requirements:

- Create sections for About Me, Projects, and Contact.
- Use AI to:
- o Suggest color palettes and typography.
- o Create a responsive layout with Grid/Flexbox.
- o Add smooth scrolling navigation.

PROMPT:

Build a responsive personal portfolio website using HTML, CSS, and JavaScript. Requirements:

- 1. Sections: About Me, Projects, and Contact.
- 2. Use CSS Grid or Flexbox for a clean, responsive layout that works on desktop and mobile.
- 3. Suggest a professional color palette (3–4 colors) and suitable typography (heading + body font).
- 4. Add smooth scrolling navigation with links in a top navbar that jump to each section.
- 5. Keep the design modern and minimal, with hover effects for buttons/links.
- 6. Include placeholder text and example projects so I can replace them later.
- 7. Write clean, well-commented code."*

CODE:

OUTPUT:



Task 2 – Online Store Product Page

Design a product display page for an online store.

Requirements:

- Display product image, title, price, and "Add to Cart" button.
- Use AI to:
- o Style with BEM methodology.
- o Make layout responsive.
- o Add hover effects and "Add to Cart" alert

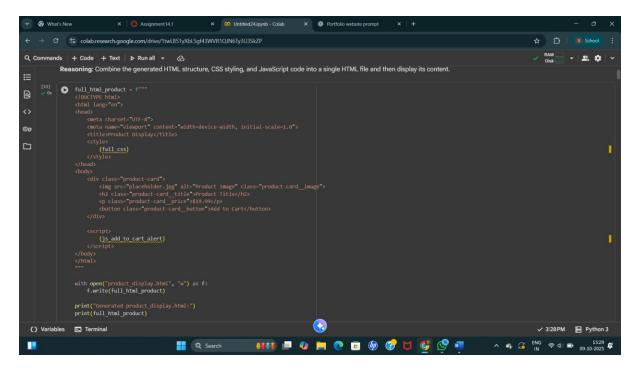
PROMPT:

*"Build a responsive product display page for an online store using HTML, CSS, and JavaScript.

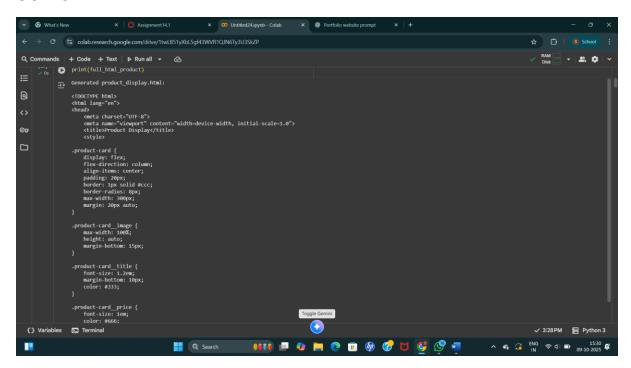
Requirements:

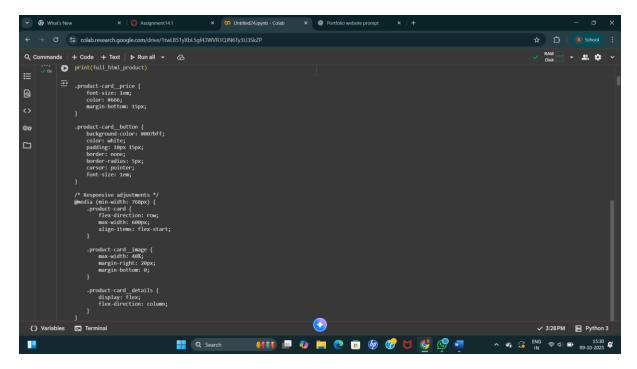
- 1. Show product image, product title, price, and an "Add to Cart" button.
- 2. Style the page using the **BEM methodology** for class naming.
- 3. Make the layout responsive with Flexbox/Grid so it looks good on desktop and mobile.
- 4. Add hover effects on the product card and button.
- 5. When the user clicks 'Add to Cart,' display a JavaScript alert saying 'Product added to cart!'.
- 6. Use clean, minimal styling with comments in code for clarity."*

CODE:



OUTPUT:





Task 3 – Event Registration Form

Build an event registration form for a conference.

Requirements:

- Collect name, email, phone number, and session selection.
- Use AI to:
- o Add form validation with JavaScript.
- o Make the form accessible with labels and ARIA.
- o Style with a professional look.

PROMPT:

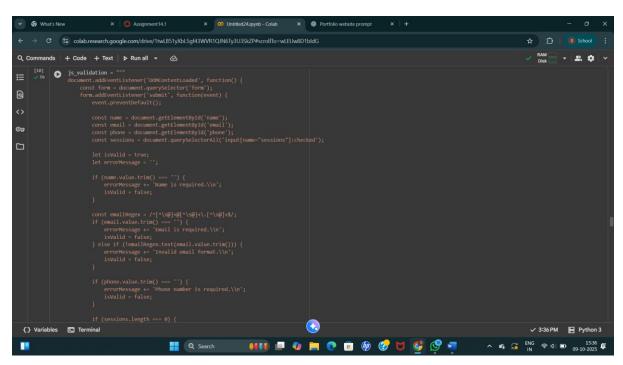
"Build a responsive event registration form for a conference using HTML, CSS, and JavaScript.

Requirements:

- 1. Collect user details: name, email, phone number, and session selection (dropdown or radio buttons).
- 2. Add **form validation** with JavaScript (check required fields, validate email format, and phone number length).
- 3. Ensure the form is **accessible**: include proper <label> tags, use ARIA attributes where needed, and maintain good contrast.
- 4. Style the form with a clean, **professional look** (centered layout, padding, consistent typography, and button styling).

- 5. Show inline error messages if validation fails, and a success message on valid submission.
- 6. Write clean, well-commented code."*

CODE:



OUTPUT:

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document.addEventListener('DOMContentLoaded', function() {
    const form = document.queryselector('form');
    form.addEventListener('submit', function(event) {
        event.preventDefault();

                                                                                                                                     const name = document.getElementById('name');
const email = document.getElementById('email');
const phone = document.getElementById('fonot');
const phone = document.getElementById('phone');
const sessions = document.querySelectorAll('input[name="sessions"];checked');
                                                                                                                                     let isValid = true;
let errorMessage = '';
                                                                                                                                   if (name.value.trim() === '') {
  errorMessage += 'Name is required.\n';
  isValid = false;
}
                                                                                                                                 const emailRegex = /^[^\se]+\[^\se]+\.[^\se]+\.[^\se]+\.[^\se]+\.[^\se]+\.[^\se]+\.[^\se]+\.[^\se]+\.[^\se]+\.[^\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\se]+\.[\
                                                                                                                                   if (phone.value.trim() === '') {
    errorMessage += 'Phone number is required.\n';
    isValid = false;
}
                                                                                                                               if (sessions.length === 0) {
    errorMessage += 'Please select at least one session.\n';
    isValid = false;
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ✓ 3:36 PM 🔡 Python 3
                                                                                                                                                                                                                                                                               # Q Search | 1537 | Q Search |
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Task Description #4 (Data – Fetch API & Render List with Loading/Error States)

- Task: Fetch JSON from an API and render items to the DOM with loading and error UI.
- Instructions:
- o Ask AI to write fetch() logic, create DOM nodes safely, and add skeleton/loading text. Deliverables (For All Tasks)
- 1. Al-generated prompts for code and test case generation.
- 2. At least 3 assert test cases for each task.
- 3. Al-generated initial code and execution screenshots.
- 4. Analysis of whether code passes all tests.
- 5. Improved final version with inline comments and explanation.
- 6. Compiled report (Word/PDF) with prompts, test cases, assertions, code, and output.

PROMPT:

"Build a JavaScript program that fetches JSON data from a public API (e.g., https://jsonplaceholder.typicode.com/posts) and renders the items into the DOM.

Requirements:

- 1. Use fetch() with proper error handling.
- 2. Show a **loading state** (skeleton or loading text) before data arrives.

- 3. If the request fails, display an **error message** in the DOM.
- 4. Create DOM nodes safely (no innerHTML injection).
- 5. Write at least 3 assert-based test cases (using simple JS console.assert) to validate:
 - Data is fetched successfully.
 - Loading state is shown before rendering.
 - Error message appears when fetch fails.
- 6. Generate initial code with inline comments, then analyze whether tests pass.
- 7. Improve the code with best practices and accessibility (ARIA live regions for loading/error states).
- 8. Provide inline explanations and clean formatting.
- Finally, compile everything into a short report (Word/PDF) including: prompts, test cases, code versions, outputs/screenshots, and analysis."*

CODE:

OUTPUT:

```
ClocryPE html>
chtml lang="en">
chead>
cmeta charset="UIF-8">
cmeta name="viceport" content="width-device-width, initial-scale=1.0">
chead>
cmeta name="viceport" content="width-device-width, initial-scale=1.0">
chead>
content name="viceport" content="width-device-width, initial-scale=1
```