

# AI ASSISTED CODING

## END LAB EXAM

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### SET - 01

#### **Q1. Improve prompt clarity for generating a course-creation module**

**TASK 1 :** Rewrite a vague prompt into a structured prompt using role, constraints, and output format.

##### **PROMPT :**

You are an instructional designer specializing in artificial intelligence and software engineering education.

Task: Create a beginner-friendly course module on AI-assisted coding.

Constraints:

- Focus only on fundamentals (AI-assisted IDEs, code completion, debugging, secure coding practices).
- Keep explanations concise (max 150 words per section).
- Include at least one Python example per topic.

Output Format:

- Title of module
- Learning objectives (3–5 bullet points)
- Content sections (with explanation + example code)
- Short quiz (3 multiple-choice questions with answers)

## CODE :

```
⚡ finalabq1t1.py > ...
1  def generate_ai_course_module():
2      return {
3          "title": "Introduction to AI-Assisted Coding",
4          "objectives": [
5              "Understand AI in coding",
6              "Use AI for code completion",
7              "Debug with AI tools",
8              "Apply secure coding practices"
9          ],
10         "sections": {
11             "AI-Assisted IDEs": {
12                 "explanation": "Modern IDEs integrate AI to suggest code and detect errors.",
13                 "example": "import math\nprint(math.sqrt(16))"
14             },
15             "Code Completion": {
16                 "explanation": "AI predicts the next line of code to reduce errors.",
17                 "example": "for i in range(3):\n    print(i)"
18             }
19         },
20         "quiz": [
21             {"question": "Which feature predicts next line?", "answer": "Code Completion"},
22             {"question": "AI-assisted IDEs improve?", "answer": "Productivity"},
23             {"question": "AI tools identify?", "answer": "Both syntax & security issues"}
24         ]
25     }
26
27     print(generate_ai_course_module())
28
```

## OUTPUT :

```
{'title': 'Introduction to AI-Assisted Coding', 'objectives': ['Understand AI in coding', 'Use AI for code completion', 'Debug with AI tools', 'Apply secure coding practices'], 'sections': {'AI-Assisted IDEs': {'explanation': 'Modern IDEs integrate AI to suggest code and detect errors.', 'example': 'import math\nprint(math.sqrt(16))'}, 'Code Completion': {'explanation': 'AI predicts the next line of code to reduce errors.', 'example': 'for i in range(3):\n    print(i)'}, 'quiz': [{'question': 'Which feature predicts next line?', 'answer': 'Code Completion'}, {'question': 'AI-assisted IDEs improve?', 'answer': 'Productivity'}, {'question': 'AI tools identify?', 'answer': 'Both syntax & security issues'}]}
```

## OBSERVATION :

- The vague prompt is now **clear and structured**.
- The code produces a **consistent module format**.
- The output is **small, readable, and reusable**.
- You can extend this template for more topics (debugging, secure coding, etc.).

**TASK 2 :** Apply few-shot examples to improve AI's code output consistency.

**PROMPT :**

You are an instructional designer specializing in artificial intelligence and software engineering education.

Task: Generate a beginner-friendly course module on AI-assisted coding.

Constraints:

- Focus on fundamentals (AI-assisted IDEs, code completion, debugging, secure coding practices).
- Keep explanations concise (max 100 words per section).
- Include at least one Python example per topic.
- Output must follow the same structure as the examples provided.

Few-Shot Examples:

Example 1:

Title: Introduction to Python Basics

Objectives: ["Understand variables", "Use loops", "Define functions"]

Sections: {"Variables": {"explanation": "Variables store data", "example": "x=5"}}

Quiz: [{"question": "Which keyword defines a function?", "answer": "def"}]

Example 2:

Title: Networking Fundamentals

Objectives: ["Understand TCP/IP", "Differentiate UDP vs TCP"]

Sections: {"TCP": {"explanation": "Reliable protocol", "example": "3-way handshake"}}

Quiz: [{"question": "Which protocol is connectionless?", "answer": "UDP"}]

Now generate a similar module for AI-assisted coding.

## CODE :

```
finallabq1t2.py > ...
1  def generate_ml_course_module():
2      # Few-shot examples guiding structure
3      examples = [
4          {
5              "title": "Introduction to Python Basics",
6              "objectives": ["Understand variables", "Use loops", "Define functions"],
7              "sections": {
8                  "Variables": {"explanation": "Variables store data", "example": "x = 5"}
9              },
10             "quiz": [{"question": "Which keyword defines a function?", "answer": "def"}]
11         },
12         {
13             "title": "Networking Fundamentals",
14             "objectives": ["Understand TCP/IP", "Differentiate UDP vs TCP"],
15             "sections": {
16                 "TCP": {"explanation": "Reliable protocol", "example": "3-way handshake"}
17             },
18             "quiz": [{"question": "Which protocol is connectionless?", "answer": "UDP"}]
19         }
20     ]
21
22     # Target module (Machine Learning Basics)
23     module = {
24         "title": "Introduction to Machine Learning Basics",
25         "objectives": [
26             "Understand supervised vs unsupervised learning",
27             "Explore datasets and preprocessing",
28             "Train a simple ML model",
29             "Evaluate model accuracy"
30         ],
31         "sections": {
32             "Supervised Learning": {
33                 "explanation": "Uses labeled data to train models.",
34                 "example": "from sklearn.linear_model import LinearRegression\nmodel = LinearRegression()"
35             },
36             "Unsupervised Learning": {
37                 "explanation": "Finds hidden patterns in unlabeled data.",
38                 "example": "from sklearn.cluster import KMeans\nkmeans = KMeans(n_clusters=3)"
39             }
40         },
41         "quiz": [
42             {"question": "Which learning uses labeled data?", "answer": "Supervised Learning"},
43             {"question": "Which algorithm is used for clustering?", "answer": "KMeans"},
44             {"question": "What metric evaluates accuracy?", "answer": "Score/Accuracy"}
45         ]
46     }
47
48     return module
49
50 print(generate_ml_course_module())
```

## OUTPUT :

```
{'title': 'Introduction to Machine Learning Basics', 'objectives': ['Understand supervised vs unsupervised learning', 'Explore datasets and preprocessing', 'Train a simple ML model', 'Evaluate model accuracy'], 'sections': {'Supervised Learning': {'explanation': 'Uses labeled data to train models.'}, 'example': 'from sklearn.linear_model import LinearRegression\nmodel = LinearRegression()', 'Unsupervised Learning': {'explanation': 'Finds hidden patterns in unlabeled data.'}, 'example': 'from sklearn.cluster import KMeans\nkmeans = KMeans(n_clusters=3)'}, 'quiz': [{'question': 'Which learning uses labeled data?', 'answer': 'Supervised Learning'}, {'question': 'Which algorithm is used for clustering?', 'answer': 'KMeans'}, {'question': 'What metric evaluates accuracy?', 'answer': 'Score/Accuracy'}]}
```

## OBSERVATION :

- By providing **few-shot examples**, the AI learns the **expected structure** (title → objectives → sections → quiz).
- This improves **consistency** across different modules, avoiding random formats.
- The output is **aligned with the examples**, making it predictable and reusable.
- You can extend this technique to generate multiple modules across subjects while keeping the same format.

## Q2. Generate an AI-assisted LMS dashboard

**TASK 1 :** Use zero-shot prompting to generate HTML/CSS for faculty dashboard.

### PROMPT :

Generate a clean, accessible, responsive HTML/CSS page for an AI-assisted LMS Faculty Dashboard.

Requirements:

- Top navbar with logo, course selector, search, user menu.
- Left sidebar with sections: Overview, Courses, Assignments, Gradebook, Attendance, Messages, Analytics, Settings.
- Main area with 3 cards: Today's Tasks, Grading Queue, Messages; plus a table of "Active Courses" with columns: Course, Enrollments, Pending Grades, Next Due, Actions.

- AI-assist features: a compact “Quick Actions” panel with buttons (Draft announcement, Generate rubric, Summarize messages) and a small prompt input.
- Use semantic HTML, mobile-first responsive design, CSS variables, light theme, and accessible contrast.
- No JavaScript; pure HTML/CSS. Keep it under ~300 lines. Include minimal icons using text/emoji only.

Output format: single HTML file with embedded <style>.

## CODE :

```

<> finallabq2t1.html > ...
1   <!doctype html>
2   <html lang="en">
3     <head>
4       <meta charset="utf-8">
5       <title>AI-Assisted LMS – Faculty Dashboard</title>
6       <meta name="viewport" content="width=device-width, initial-scale=1">
7       <link href="styles.css" rel="stylesheet">
8     </head>
9     <body>
10    <header aria-label="Top navigation">
11      <div class="logo">🎓 AI-Assisted LMS</div>
12      <div class="nav-flex" role="navigation">
13        <select class="select" aria-label="Select course">
14          <option>CS101 – Intro to Programming</option>
15          <option>CS220 – Data Structures</option>
16          <option>CS340 – AI Systems</option>
17        </select>
18        <div class="search" role="search">
19          <span aria-hidden="true">🔍</span>
20          <input type="search" placeholder="Search students, assignments, messages..." aria-label="Search dashboard">
21        </div>
22      </div>
23      <div class="user" aria-label="User menu">👩‍💻 Neha • Faculty</div>
24    </header>
25
26    <div class="layout" role="main">
27      <aside aria-label="Sidebar">
28        <nav>
```

```
29 |     <ul class="menu">
30 |       <li><a class="active" href="#">🏠 Overview</a></li>
31 |       <li><a href="#">📊 Courses</a></li>
32 |       <li><a href="#">📝 Assignments</a></li>
33 |       <li><a href="#">📊 Gradebook</a></li>
34 |       <li><a href="#">👤 Attendance</a></li>
35 |       <li><a href="#">✉️ Messages</a></li>
36 |       <li><a href="#">📈 Analytics</a></li>
37 |       <li><a href="#">⚙️ Settings</a></li>
38 |
39 |     </ul>
40 |   </nav>
41 | </aside>
42 |
43 | <main>
44 |   <section class="grid" aria-label="Summary cards">
45 |     <div class="card" aria-live="polite">
46 |       <h3>Today's tasks</h3>
47 |       <ul class="tasks" aria-label="Task list">
48 |         <li><span>Finalize Lab 3 rubric</span><span class="badge">Due 5pm</span></li>
49 |         <li><span>Schedule office hours</span><span class="badge">Tue</span></li>
50 |         <li><span>Post project brief</span><span class="badge">Draft</span></li>
51 |       </ul>
52 |     </div>
53 |     <div class="card">
54 |       <h3>Grading queue</h3>
55 |       <p class="muted">12 submissions need review • Last updated 10m ago</p>
56 |       <div class="actions">
57 |         <button class="btn primary">Open gradebook</button>
58 |         <button class="btn">Export CSV</button>
59 |       </div>
60 |     </div>
61 |     <div class="card">
62 |       <h3>Messages</h3>
63 |       <p class="muted">3 unread from CS220</p>
64 |       <div class="actions">
65 |         <button class="btn">View inbox</button>
66 |         <button class="btn accent">Summarize</button>
67 |       </div>
68 |     </div>
69 |   </section>
70 |
71 |   <section class="card" aria-label="AI quick actions">
72 |     <h3>AI quick actions</h3>
73 |     <div class="quick">
74 |       <button class="btn accent">📝 Draft announcement</button>
75 |       <button class="btn warn">🧩 Generate rubric</button>
76 |       <button class="btn">✉️ Summarize messages</button>
```

```
76 <button class="btn"> Suggest schedule</button>
77 <div class="prompt">
78 | <label for="prompt" class="muted">Prompt the assistant</label>
79 | <textarea id="prompt" placeholder="e.g., Create a rubric for Lab 3 focusing on clarity, correctness, and efficiency."></textarea>
80 | </div>
81 </div>
82 </section>
83
84 <section class="table" aria-label="Active courses">
85 | <table>
86 | | <thead>
87 | | | <tr>
88 | | | | <th scope="col">Course</th>
89 | | | | <th scope="col">Enrollments</th>
90 | | | | <th scope="col">Pending grades</th>
91 | | | | <th scope="col">Next due</th>
92 | | | | <th scope="col">Actions</th>
93 | | | </tr>
94 | | </thead>
95 | | <tbody>
96 | | | <tr>
97 | | | | <td>CS101 – Intro to Programming</td>
98 | | | | <td>58</td>
99 | | | | <td>7</td>
100 | | | | <td>Nov 28</td>
101 | | | | <td class="actions">
102 | | | | | <button class="btn">Open</button>
103 | | | | | <button class="btn">Announce</button>
104 | | | | </td>
105 | | | </tr>
106 | | | <tr>
107 | | | | <td>CS220 – Data Structures</td>
108 | | | | <td>42</td>
109 | | | | <td>3</td>
110 | | | | <td>Nov 29</td>
111 | | | | <td class="actions">
112 | | | | | <button class="btn">Open</button>
113 | | | | | <button class="btn">Announce</button>
114 | | | | </td>
115 | | | </tr>
116 | | | <tr>
117 | | | | <td>CS340 – AI Systems</td>
118 | | | | <td>37</td>
119 | | | | <td>2</td>
120 | | | | <td>Dec 2</td>
121 | | | | <td class="actions">
122 | | | | | <button class="btn">Open</button>
123 | | | | | <button class="btn">Announce</button>
124 | | | | </td>
125 | | | </tr>
126 | | </tbody>
127 | | </table>
128 | | </section>
129 | | </main>
130 | | </div>
131
132 | <footer>© 2025 AI-Assisted LMS • Faculty Dashboard</footer>
133 | </body>
134 | </html>
```

```
# style.css > {} @media (max-width: 960px)
1  /* Theme tokens */
2  :root{
3    --bg:#f7f9fc; --surface:#ffffff; --text:#1a1f2b; --muted:#5a6473;
4    --primary:#2d6cdf; --primary-ink:#0f264f; --border:#e1e6ef; --accent:#14b8a6;
5    --warn:#f59e0b; --danger:#ef4444;
6    --radius:12px; --shadow:0 6px 20px #rgba(18,38,63,.08);
7  }
8
9  /* Resets */
10 *{box-sizing:border-box}
11 body{
12   margin:0; font:14px/1.5 system-ui,-apple-system,Segoe UI,Roboto,Ubuntu;
13   color:var(--text); background:var(--bg)
14 }
15 a{color:var(--primary); text-decoration:none}
16
17 /* Header */
18 header{
19   position:sticky; top:0; z-index:10; background:var(--surface); border-bottom:1px solid var(--border);
20   display:flex; gap:14px; align-items:center; padding:10px 16px;
21 }
22 .logo{font-weight:700; letter-spacing:.3px; color:var(--primary-ink)}
23 .nav-flex{display:flex; gap:12px; align-items:center; flex:1}
24 .select, .search input{
25   border:1px solid var(--border); background:#fff; border-radius:8px; padding:8px 10px;
26 }
27 .search{flex:1; display:flex; align-items:center; gap:8px}
28 .search input{width:100%}
29 .user{display:flex; align-items:center; gap:8px; color:var(--muted)}
30
31 /* Layout */
32 .layout{
33   display:grid; grid-template-columns: 260px 1fr; gap:16px; padding:16px;
34   max-width:1200px; margin:0 auto
35 }
36 aside{
37   background:var(--surface); border:1px solid var(--border); border-radius:var(--radius); box-shadow:var(--shadow)
38 }
39
40 /* Sidebar */
41 .menu{list-style:none; margin:0; padding:10px}
42 .menu li{margin:2px 0}
43 .menu a{
44   display:flex; gap:10px; align-items:center; padding:10px 12px; border-radius:10px; color:var(--text)
45 }
46 .menu a:hover, .menu a.active{background:#f0f5ff}
47
48 /* Main */
49 main{display:flex; flex-direction:column; gap:16px}
50 .grid{display:grid; grid-template-columns: repeat(3,1fr); gap:16px}
51 .card{
52   background:var(--surface); border:1px solid var(--border); border-radius:var(--radius);
53   box-shadow:var(--shadow); padding:14px
54 }
55 .card h3{margin:0 0 8px 0; font-size:16px}
56 .muted{color:var(--muted)}
```

```

57 .tasks li{
58 | display:flex; justify-content:space-between; padding:8px 0; border-bottom:1px dashed var(--border)
59 }
60 .tasks li:last-child{border-bottom:none}
61 .badge{
62 | display:inline-block; padding:2px 8px; border-radius:999px; font-size:12px; border:1px solid var(--border); color:var(--muted)
63 }
64
65 /* Table */
66 .table{
67 | background:var(--surface); border:1px solid var(--border); border-radius:var(--radius);
68 | box-shadow:var(--shadow); overflow:hidden
69 }
70 table{width:100%; border-collapse:collapse}
71 th, td{padding:12px 10px; border-bottom:1px solid var(--border); text-align:left}
72 th{background:□#f3f6fb; font-weight:600}
73 tr:last-child td{border-bottom:none}
74 .actions{display:flex; gap:8px}
75
76 /* Buttons */
77 .btn{
78 | appearance:none; border:1px solid var(--border); background:□#fff; color:var(--text);
79 | padding:8px 10px; border-radius:10px; cursor:pointer
80 }
81 .btn.primary{background:var(--primary); color:□#fff; border-color:transparent}
82 .btn.accent{background:var(--accent); color:□#063}
83 .btn.warn{background:var(--warn); color:□#fff; border-color:transparent}
84
85 /* Quick actions */
86 .quick{display:grid; grid-template-columns: 1fr 1fr; gap:12px; align-items:center}
87 .prompt{grid-column:1/-1}
88 .prompt textarea{
89 | width:100%; min-height:70px; border:1px solid var(--border); border-radius:10px; padding:10px; resize:vertical
90 }
91
92 /* Footer */
93 footer{padding:20px 16px; color:var(--muted); text-align:center}
94
95 /* Responsive */
96 @media (max-width: 960px){
97 | .layout{grid-template-columns: 1fr}
98 | aside{order:2}
99 | .grid{grid-template-columns: 1fr}
100 }

```

## OUTPUT :

The screenshot displays the AI-Assisted LMS interface. At the top, there is a navigation bar with icons for AI-Assisted LMS, course selection (CS101 — Intro to Programming), search bar, and user profile (Neha • Faculty). Below the navigation bar is the main dashboard area.

**Overview:** A sidebar on the left containing links to Overview, Courses, Assignments, Gradebook, Attendance, Messages, Analytics, and Settings.

**Today's tasks:** A section listing three tasks: "Finalize Lab 3 rubric" (Due 5pm), "Schedule office hours" (Tue), and "Post project brief" (Draft).

**Grading queue:** A section indicating 12 submissions need review, last updated 10m ago, with buttons for "Open gradebook" and "Export CSV".

**Messages:** A section showing 3 unread messages from CS220, with buttons for "View inbox" and "Summarize".

**AI quick actions:** A section at the bottom with four buttons: "Draft announcement" (green), "Generate rubric" (orange), "Summarize messages" (light blue), and "Suggest schedule" (light blue).

A prompt box at the bottom asks "Prompt the assistant" with the example "e.g., Create a rubric for Lab 3 focusing on clarity, correctness, and efficiency."

Course	Enrollments	Pending grades	Next due	Actions	
CS101 — Intro to Programming	58	7	Nov 28	<a href="#">Open</a>	<a href="#">Announce</a>
CS220 — Data Structures	42	3	Nov 29	<a href="#">Open</a>	<a href="#">Announce</a>
CS340 — AI Systems	37	2	Dec 2	<a href="#">Open</a>	<a href="#">Announce</a>

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## OBSERVATION :

- Zero-shot prompting works when requirements are explicit and scoped: structure, components, accessibility, and constraints.
- Without examples, the AI may vary aesthetic choices; specifying semantic HTML, responsive layout, and content blocks keeps outputs consistent.
- Embedding CSS variables enables quick theming, and using mobile-first media queries preserves usability on smaller screens.
- For richer interactivity (filters, modals, AI calls), you'd add progressive enhancement later with JS, but this meets the zero-shot task cleanly.

## TASK 2 : Use one-shot prompt to redesign the UI with responsive layout.

### PROMPT :

You are a front-end UI designer.

Task: Redesign the AI-assisted LMS Faculty Dashboard with a modern, responsive layout.

Constraints:

- Use semantic HTML5 and external CSS.
- Responsive grid/flexbox layout that adapts to desktop, tablet, and mobile.

- Include: top navbar (logo, search, user menu), sidebar (Overview, Courses, Assignments, Gradebook, Messages, Settings), main content with cards (Tasks, Grading Queue, Messages), AI Quick Actions panel, and Active Courses table.

- Keep design minimal, accessible, and mobile-first.

Output: index.html and styles.css files.

## CODE :

```
<> finallabq2t2.html > ⏷ html > ⏷ head > ⏷ link
1   <!doctype html>
2   <html lang="en">
3   <head>
4   | <meta charset="utf-8">
5   | <title>AI-Assisted LMS Dashboard</title>
6   | <meta name="viewport" content="width=device-width, initial-scale=1">
7   | <link href="style2.css" rel="stylesheet">
8   </head>
9   <body>
10  | <header>
11  | | <div class="logo">🎓 LMS</div>
12  | | <div class="search">
13  | | | <input type="search" placeholder="Search..." aria-label="Search dashboard">
14  | | </div>
15  | | <div class="user">👤 Neha</div>
16  | </header>
17
18  <div class="layout">
19  | <aside>
20  | | <nav>
21  | | | <ul>
22  | | | | <li><a href="#">🏠 Overview</a></li>
23  | | | | <li><a href="#">📚 Courses</a></li>
24  | | | | <li><a href="#">📝 Assignments</a></li>
25  | | | | <li><a href="#">📊 Gradebook</a></li>
26  | | | | <li><a href="#">✉️ Messages</a></li>
27  | | | | <li><a href="#">⚙️ Settings</a></li>
28  | | | </ul>
29  | | </nav>
```

```
30  </aside>
31
32  <main>
33      <section class="cards">
34          <div class="card">
35              <h3>Tasks</h3>
36              <ul>
37                  <li>Finalize rubric</li>
38                  <li>Schedule office hours</li>
39              </ul>
40          </div>
41          <div class="card">
42              <h3>Grading Queue</h3>
43              <p>12 submissions pending</p>
44          </div>
45          <div class="card">
46              <h3>Messages</h3>
47              <p>3 unread</p>
48          </div>
49      </section>
50
51      <section class="card">
52          <h3>AI Quick Actions</h3>
53          <div class="actions">
54              <button>📝 Draft announcement</button>
55              <button>✳️ Generate rubric</button>
56              <button>✉️ Summarize messages</button>
57          </div>
58          <textarea placeholder="Enter prompt for assistant..."></textarea>
59      </section>
60
61      <section class="card">
62          <h3>Active Courses</h3>
63          <table>
64              <thead>
65                  <tr>
66                      <th>Course</th><th>Enrollments</th><th>Pending</th><th>Next Due</th>
67                  </tr>
68              </thead>
69              <tbody>
70                  <tr><td>CS101</td><td>58</td><td>7</td><td>Nov 28</td></tr>
71                  <tr><td>CS220</td><td>42</td><td>3</td><td>Nov 29</td></tr>
72              </tbody>
73          </table>
74      </section>
75  </main>
76</div>
77
78  <footer>© 2025 AI-Assisted LMS</footer>
79</body>
80</html>
```

```

# style2.css > ...
1  :root {
2    --bg: #f7f9fc; --surface: #fff; --text: #1a1f2b; --primary: #2d6cdf;
3    --border: #e1e6ef; --radius: 10px;
4  }
5
6  *{box-sizing:border-box; margin:0; padding:0}
7  body{font:14px/1.5 system-ui; background:var(--bg); color:var(--text)}
8
9  header{
10   display:flex; justify-content:space-between; align-items:center;
11   padding:10px 16px; background:var(--surface); border-bottom:1px solid var(--border);
12 }
13 .logo{font-weight:bold; color:var(--primary)}
14 .search input{padding:6px 10px; border:1px solid var(--border); border-radius:var(--radius)}
15 .user{color:#555}
16
17 .layout{display:grid; grid-template-columns:220px 1fr; gap:16px; padding:16px}
18 aside{background:var(--surface); border:1px solid var(--border); border-radius:var(--radius); padding:10px}
19 aside ul{list-style:none}
20 aside li{margin:8px 0}
21 aside a{text-decoration:none; color:var(--text)}
22
23 main{display:flex; flex-direction:column; gap:16px}
24 .cards{display:grid; grid-template-columns:repeat(auto-fit,minmax(200px,1fr)); gap:16px}
25 .card{background:var(--surface); border:1px solid var(--border); border-radius:var(--radius); padding:12px}
26 .card h3{margin-bottom:8px}
27
28 .actions{display:flex; gap:8px; flex-wrap:wrap}
29 button{padding:8px 12px; border:none; border-radius:var(--radius); background:var(--primary); color:#fff; cursor:pointer}
30 textarea{width:100%; margin-top:10px; padding:8px; border:1px solid var(--border); border-radius:var(--radius)}
31
32 table{width:100%; border-collapse:collapse}
33 th,td{padding:8px; border-bottom:1px solid var(--border); text-align:left}
34 th{background:#f0f4fa}
35
36 footer{text-align:center; padding:12px; color:#555}
37
38 @media(max-width:768px){
39   .layout{grid-template-columns:1fr}
40   aside{order:2}
41 }

```

## OUTPUT :

The screenshot displays the LMS dashboard with the following components:

- Left Sidebar:** Includes links for Overview, Courses, Assignments, Gradebook, Messages, and Settings.
- Top Bar:** Shows the LMS logo, a search bar, and a user profile for Neha.
- Dashboard Summary:**
  - Tasks:** Finalize rubric, Schedule office hours.
  - Grading Queue:** 12 submissions pending.
  - Messages:** 3 unread.
- AI Quick Actions:** Buttons for Draft announcement, Generate rubric, and Summarize messages. A text input field for entering an AI prompt is also present.
- Active Courses:** A table showing course details:
 

Course	Enrollments	Pending	Next Due
CS101	58	7	Nov 28
CS220	42	3	Nov 29
- Page Footer:** © 2025 AI-Assisted LMS

## OBSERVATION :

- **One-shot prompt** gave a redesigned UI without multiple examples — just a single clear instruction.
- The **responsive layout** ensures usability across devices (desktop, tablet, mobile).
- Separation of HTML and CSS improves maintainability.
- Compared to Task 1 (zero-shot), this design is **more modern and adaptive**, showing how one-shot prompting can guide the AI toward a specific style.