

# AI ASSISTED CODING

## ASSIGNMENT-14

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BATCH:19  
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### **TASK-1:**

#### **Scenario:**

A student wants to showcase their projects, skills, and contact details in a portfolio website. Instead of writing all code manually, they want to speed up the process using GitHub Copilot.

- Use Copilot to generate an HTML structure for a personal portfolio page (sections: Home, About, Projects, Contact).
- Ask Copilot to suggest responsive CSS styling for the layout (e.g., grid/flexbox).
- Customize Copilot's suggestions to add a hover effect on project cards

#### **Prompt:**

generate an HTML structure for a personal portfolio page (sections: Home,About, Projects, Contact).suggest responsive CSS styling for the layout (e.g., grid/flexbox). add a hover effect on project cards give html css in same file.

#### **Code generated:**

The screenshot shows a Microsoft VS Code interface with several tabs open. The active tab is 'task2.html' which contains the following HTML and CSS code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8" />
5   <meta name="viewport" content="width=device-width,initial-scale=1" />
6   <title>Personal Portfolio</title>
7   <style>
8     :root{
9       --bg:#0f1724; --card:#0b1220; --accent:#06b6d4; --muted:#94a3b8;
10      --glass: #rgba(255,255,255,0.03);
11      --radius:12px;
12      --max-width:1100px;
13      --gap:1.25rem;
14      color-scheme: dark;
15    }
16
17    *{box-sizing:border-box}
18    html,body{height:100%}
19    body{
20      margin:0;
21      font-family:Inter, ui-sans-serif, system-ui, -apple-system, "Segoe UI", Roboto, "Helve
22      background: linear-gradient(180deg, #071226 0%, #061023 100%);
23      color: #e6eff6;
24      -webkit-font-smoothing:antialiased;
25      -moz-osx-font-smoothing:grayscale;
26      display:flex;
27      justify-content:center;
28      padding:2rem;
29    }

```

The right side of the screen shows the AI interface with a sidebar for generating code and a main area for viewing and editing the generated code. A tooltip at the bottom right says 'generate an HTML structure for a personal portfolio page (sections: Home, About, Projects, Contact).suggest responsive CSS styling for the layout (e.g., grid/flexbox). add a hover effect on project cards give html css in same file.'

```
:html> Untitled-3 ● ◇ web page.html ◇ index.html ◇ task1.html ◇ image-slider.html ◇ taSK2.html X ⏎ ...  
C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > ◇ taSK2.html > ◇ html > ◇ head > ◇ style  
2   <html lang="en">  
3     <head>  
4       <style>  
5  
31    .site{  
32      width:100%;  
33      max-width:var(--max-width);  
34      background: linear-gradient(180deg, □rgba(255,255,255,0.02), transparent);  
35      border-radius:16px;  
36      box-shadow: 0 8px 30px □rgba(2,6,23,0.7);  
37      overflow:hidden;  
38      display:grid;  
39      grid-template-rows:auto 1fr auto;  
40    }  
41  
42    header{  
43      display:flex;  
44      align-items:center;  
45      justify-content:space-between;  
46      gap:var(--gap);  
47      padding:1rem 1.5rem;  
48      background: linear-gradient(90deg, □rgba(255,255,255,0.02), □rgba(255,255,255,0.01))  
49      border-bottom:1px solid □rgba(255,255,255,0.03);  
50    }  
51  
52    .brand{  
53      display:flex;align-items:center;gap:.75rem;  
54    }  
55    .logo{  
56      width:44px;height:44px;border-radius:10px;backgroun McAfee d:linear-gradient(135deg, var(--acce  
57      display:flex;align-items:center;justify-content:center;font-weight:700;color:□#021221  
58      box-shadow: 0 4px 14px □rgba(6,182,212,0.12);  
59    }  
60    nav a{  
61      color:var(--muted);  
62      text-decoration:none;  
63      margin-left:1rem;  
64      font-weight:600;  
65      transition: color .15s, transform .15s;  
66    }  
67    nav a:hover{ color:var(--accent); transform:translateY(-2px); }  
68  
69    main{  
70      padding:2rem;  
71      display:grid;  
72      gap:2rem;  
73    }  
74  
75    /* Home / Hero */  
76    .hero{  
77      display:grid;  
78      gap:1rem;  
79      grid-template-columns: 1fr;  
80      align-items:center;
```

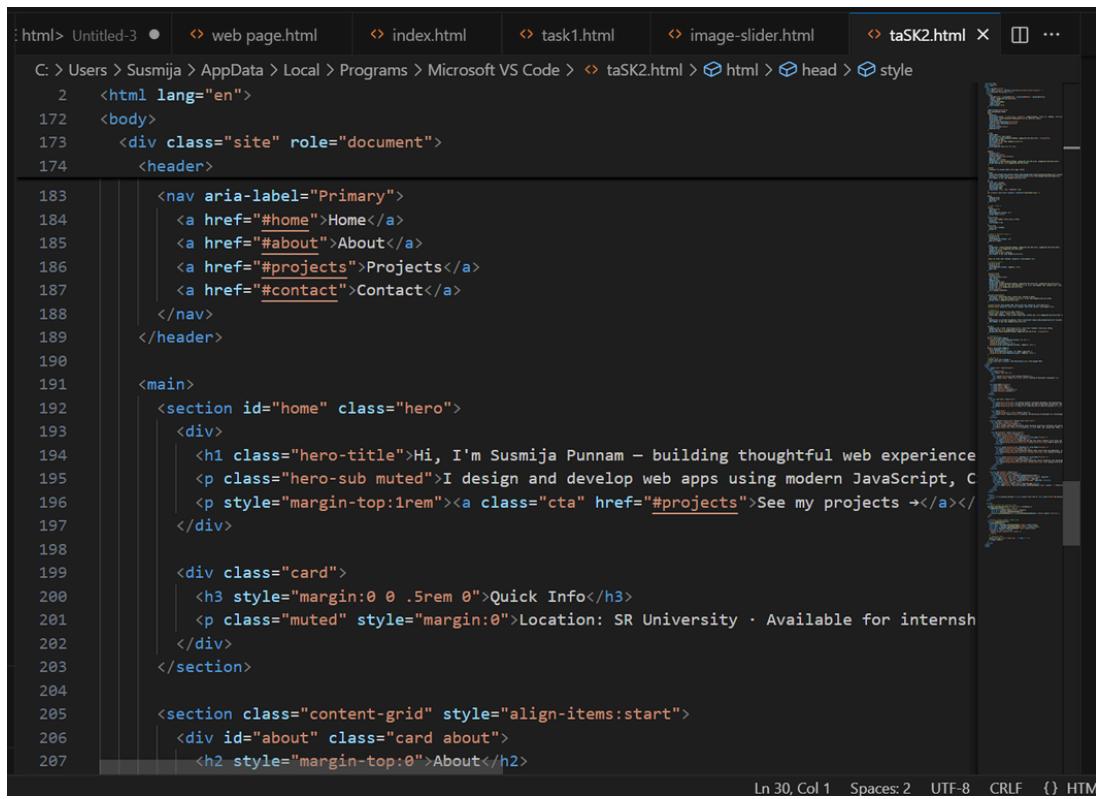
```
:html> Untitled-3 ● ◇ web page.html ◇ index.html ◇ task1.html ◇ image-slider.html ◇ taSK2.html X ⏎ ...  
C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > ◇ taSK2.html > ◇ html > ◇ head > ◇ style  
2   <html lang="en">  
3     <head>  
4       <style>  
5  
55    .logo{  
56      width:44px;height:44px;border-radius:10px;background:linear-gradient(135deg,var(--acce  
57      display:flex;align-items:center;justify-content:center;font-weight:700;color:□#021221  
58      box-shadow: 0 4px 14px □rgba(6,182,212,0.12);  
59    }  
60    nav a{  
61      color:var(--muted);  
62      text-decoration:none;  
63      margin-left:1rem;  
64      font-weight:600;  
65      transition: color .15s, transform .15s;  
66    }  
67    nav a:hover{ color:var(--accent); transform:translateY(-2px); }  
68  
69    main{  
70      padding:2rem;  
71      display:grid;  
72      gap:2rem;  
73    }  
74  
75    /* Home / Hero */  
76    .hero{  
77      display:grid;  
78      gap:1rem;  
79      grid-template-columns: 1fr;  
80      align-items:center;
```

```
:html> Untitled-3 ● | ◊ web page.html | ◊ index.html | ◊ task1.html | ◊ image-slider.html | ◊ taSK2.html X | ...  
C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > ◊ taSK2.html > ◊ html > ◊ head > ◊ style  
2   <html lang="en">  
3     <head>  
7       <style>  
11      /* Home / Hero */  
12      .hero{  
13        display:grid;  
14        gap:1rem;  
15        grid-template-columns: 1fr;  
16        align-items:center;  
17      }  
18      .hero-title{  
19        font-size:clamp(1.4rem,2.6vw,2.2rem);  
20        margin:0;  
21        line-height:1.05;  
22      }  
23      .hero-sub{  
24        color:var(--muted);  
25        margin:0;  
26      }  
27  
28      /* About + Projects layout */  
29      .content-grid{  
30        display:grid;  
31        grid-template-columns: 1fr;  
32        gap:var(--gap);  
33      }  
34  
35      .card{  
36        background: linear-gradient(180deg, □rgba(255,255,255,0.01), □rgba(255,255,255,0.00)
```

```
:html> Untitled-3 ● | ◊ web page.html | ◊ index.html | ◊ task1.html | ◊ image-slider.html | ◊ taSK2.html X | ...  
C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > ◊ taSK2.html > ◊ html > ◊ head > ◊ style  
2   <html lang="en">  
3     <head>  
7       <style>  
99      .card{  
100        background: linear-gradient(180deg, □rgba(255,255,255,0.01), □rgba(255,255,255,0.00)  
101        border:1px solid □rgba(255,255,255,0.03);  
102        padding:1.25rem;  
103        border-radius:var(--radius);  
104        box-shadow: 0 6px 18px □rgba(2,6,23,0.5);  
105      }  
106  
107      .about p{ color:var(--muted); margin:0; line-height:1.6;}  
108  
109      /* Projects grid */  
110      .projects-grid{  
111        display:grid;  
112        grid-template-columns: repeat(1, 1fr);  
113        gap:1rem;  
114      }  
115  
116      .project-card{  
117        display:flex;  
118        flex-direction:column;  
119        gap:.75rem;  
120        padding:1rem;  
121        border-radius:12px;  
122        background: linear-gradient(180deg, □rgba(255,255,255,0.02), □rgba(255,255,255,0.01)  
123        transition: transform .28s cubic-bezier(.2,.9,-.2,1), box-shadow .28s, border-color .28s  
124        border:1px solid □rgba(255,255,255,0.02);
```

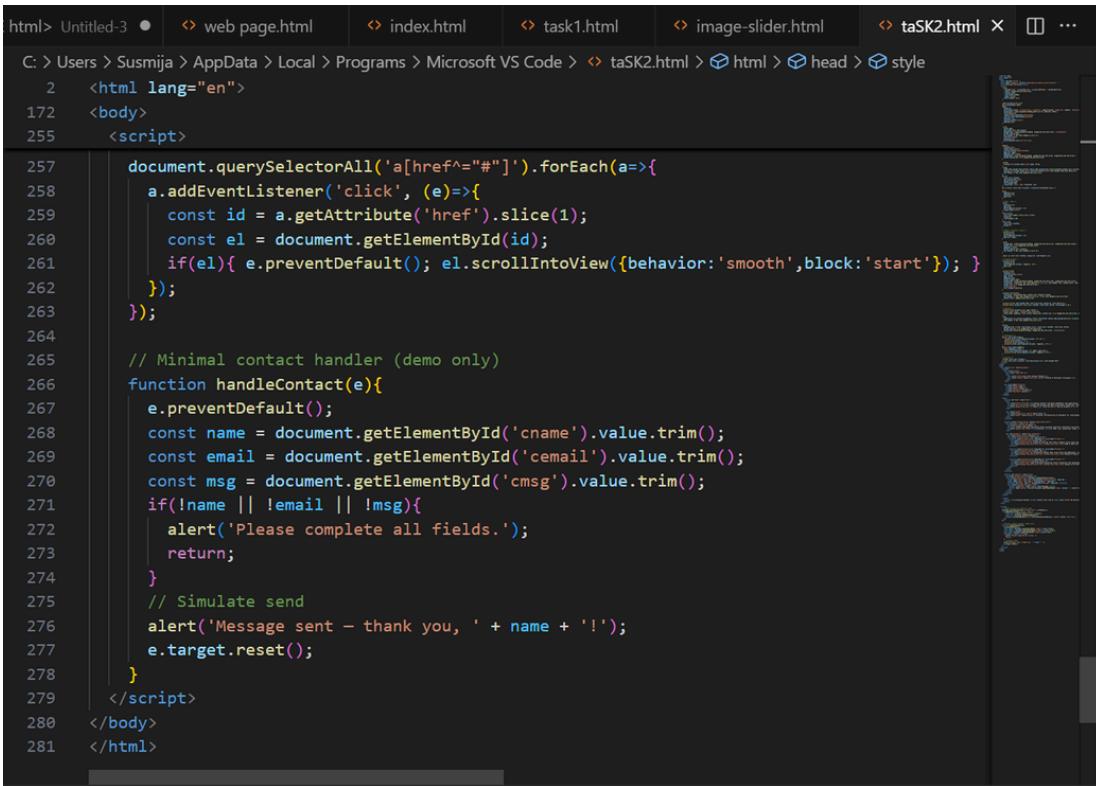
```
:html> Untitled-3 ● ◊ web page.html ◊ index.html ◊ task1.html ◊ image-slider.html ◊ taSK2.html X ...  
C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > ◊ taSK2.html > ◊ html > ◊ head > ◊ style  
2   <html lang="en">  
3     <head>  
7       <style>  
129     .project-card:hover{  
130       transform: translateY(-8px) scale(1.01) rotate(-0.2deg);  
131       box-shadow: 0 18px 40px □rgba(2,6,23,0.6), 0 4px 14px □rgba(6,182,212,0.06);  
132       border-color: □rgba(6,182,212,0.18);  
133     }  
134  
135     .project-title{ font-weight:700; font-size:1rem; margin:0; color: ■#eaf6f8 }  
136     .project-desc{ margin:0; color:var(--muted); font-size:.95rem; line-height:1.45 }  
137  
138     /* Contact */  
139     .contact-form{ display:grid; gap:.75rem; }  
140     .contact-form input, .contact-form textarea{  
141       width:100%; padding:.7rem; border-radius:8px; border:1px solid □rgba(255,255,255,0.04)  
142     }  
143     .btn{  
144       appearance:none; border:0; padding:.75rem 1rem; border-radius:10px; background:var(--accent);  
145       box-shadow: 0 8px 22px □rgba(6,182,212,0.12);  
146     }  
147  
148     footer{  
149       padding:1rem 1.5rem; text-align:center; color:var(--muted); font-size:.95rem;  
150       border-top:1px solid □rgba(255,255,255,0.02);  
151       background:linear-gradient(90deg, □rgba(255,255,255,0.01), transparent);  
152     }  
153  
154     /* Responsive */  
155     Go to Line/Column
```

```
:html> Untitled-3 ● ◊ web page.html ◊ index.html ◊ task1.html ◊ image-slider.html ◊ taSK2.html X ...  
C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > ◊ taSK2.html > ◊ html > ◊ head > ◊ style  
2   <html lang="en">  
3     <head>  
7       <style>  
154     /* Responsive */  
155     @media (min-width:720px){  
156       .content-grid{ grid-template-columns: 1fr 1fr; }  
157       .about{ grid-column:1 / 2; }  
158       .projects{ grid-column:2 / 3; }  
159       .projects-grid{ grid-template-columns: repeat(2, 1fr); }  
160     }  
161     @media (min-width:1000px){  
162       main{ padding:2.5rem; }  
163       .hero{ grid-template-columns: 1fr 380px; gap:2rem; }  
164       .projects-grid{ grid-template-columns: repeat(3, 1fr); }  
165     }  
166  
167     /* Utility */  
168     .muted{ color:var(--muted) }  
169     a.cta{ color:var(--accent); text-decoration:none; font-weight:700 }  
170   </style>  
171 </head>  
172 <body>  
173   <div class="site" role="document">  
174     <header>  
175       <div class="brand">  
176         <div class="logo">PJ</div>  
177         <div>  
178           <div style="font-weight:800">Susmija Punnam</div>  
179           <div class="muted" style="font-size:.85rem">Frontend • Developer • Design Select Encoding
```



```
html> Untitled-3 ● | < web page.html | < index.html | < task1.html | < image-slider.html | < taSK2.html X | ⋮ ...  
C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > < taSK2.html > ⚡ html > ⚡ head > ⚡ style  
2   <html lang="en">  
172  <body>  
173    <div class="site" role="document">  
174      <header>  
183        <nav aria-label="Primary">  
184          <a href="#home">Home</a>  
185          <a href="#about">About</a>  
186          <a href="#projects">Projects</a>  
187          <a href="#contact">Contact</a>  
188        </nav>  
189      </header>  
190  
191      <main>  
192        <section id="home" class="hero">  
193          <div>  
194            <h1 class="hero-title">Hi, I'm Susmija Punnam - building thoughtful web experience  
195            <p class="hero-sub muted">I design and develop web apps using modern JavaScript, C  
196            <p style="margin-top:1rem"><a class="cta" href="#projects">See my projects </a></p>  
197          </div>  
198  
199          <div class="card">  
200            <h3 style="margin:0 0 .5rem 0">Quick Info</h3>  
201            <p class="muted" style="margin:0">Location: SR University · Available for internsh  
202            </div>  
203          </div>  
204        </section>  
205  
206        <section class="content-grid" style="align-items:start">  
207          <div id="about" class="card about">  
              <h2 style="margin-top:0">About</h2>
```

Ln 30, Col 1 Spaces: 2 UTF-8 CRLF {} HTM



```
html> Untitled-3 ● | < web page.html | < index.html | < task1.html | < image-slider.html | < taSK2.html X | ⋮ ...  
C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > < taSK2.html > ⚡ html > ⚡ head > ⚡ style  
2   <html lang="en">  
172  <body>  
255    <script>  
257      document.querySelectorAll('a[href^="#"]').forEach(a=>{  
258        a.addEventListener('click', (e)=>{  
259          const id = a.getAttribute('href').slice(1);  
260          const el = document.getElementById(id);  
261          if(el){ e.preventDefault(); el.scrollIntoView({behavior:'smooth',block:'start'}); }  
262        });  
263      });  
264  
265      // Minimal contact handler (demo only)  
266      function handleContact(e){  
267        e.preventDefault();  
268        const name = document.getElementById('cname').value.trim();  
269        const email = document.getElementById('cemail').value.trim();  
270        const msg = document.getElementById('cmsg').value.trim();  
271        if(!name || !email || !msg){  
272          alert('Please complete all fields.');//  
273          return;  
274        }  
275        // Simulate send  
276        alert('Message sent - thank you, ' + name + '!');  
277        e.target.reset();  
278      }  
279    </script>  
280  </body>  
281 </html>
```

## Output:

The screenshot shows a dark-themed personal portfolio website. At the top left is a purple square icon with white letters 'PJ'. To its right, the name 'Susmija Punnam' is displayed in bold, with the subtitle 'Frontend • Developer • Designer' below it. On the far right of the header are navigation links: Home, About, Projects, and Contact. The main content area features a large heading 'Hi, I'm Susmija Punnam — building thoughtful web experiences.' Below it is a brief bio: 'I design and develop web apps using modern JavaScript, CSS, and accessible patterns. Welcome to my portfolio.' A blue link 'See my projects →' is present. To the right is a 'Quick Info' box containing location details and an email address. The 'About' section includes a bio about being a student developer and a list of skills: HTML, CSS, JavaScript, React, Flask, Git. The 'Projects' section displays three cards: 'Project One' (HTML + CSS + JS), 'Project Two' (Python + Flask + WebSocket), and 'Project Three' (Canvas + JS + Performance). Each project card has a small image preview.

This screenshot shows the contact form section of the website. It features a large input field labeled 'Message' with placeholder text 'Type your message here...'. Below the input field are two buttons: a blue 'Send Message' button and a grey 'Clear' button. At the bottom of the page, a footer bar contains the copyright notice '© Susmija Punnam · Built with care · SR University'.

## Observation:

The code builds a responsive personal portfolio webpage with four main sections: Home, About, Projects, and Contact. It uses flexbox and CSS grid for layout, ensuring adaptability across screen sizes. The navigation is sticky, the project cards include a hover effect (lift + shadow), and a simple contact form is provided, making the design clean, modern, and user-friendly.

## Task #2:

### AI-Generated Restaurant Landing Page

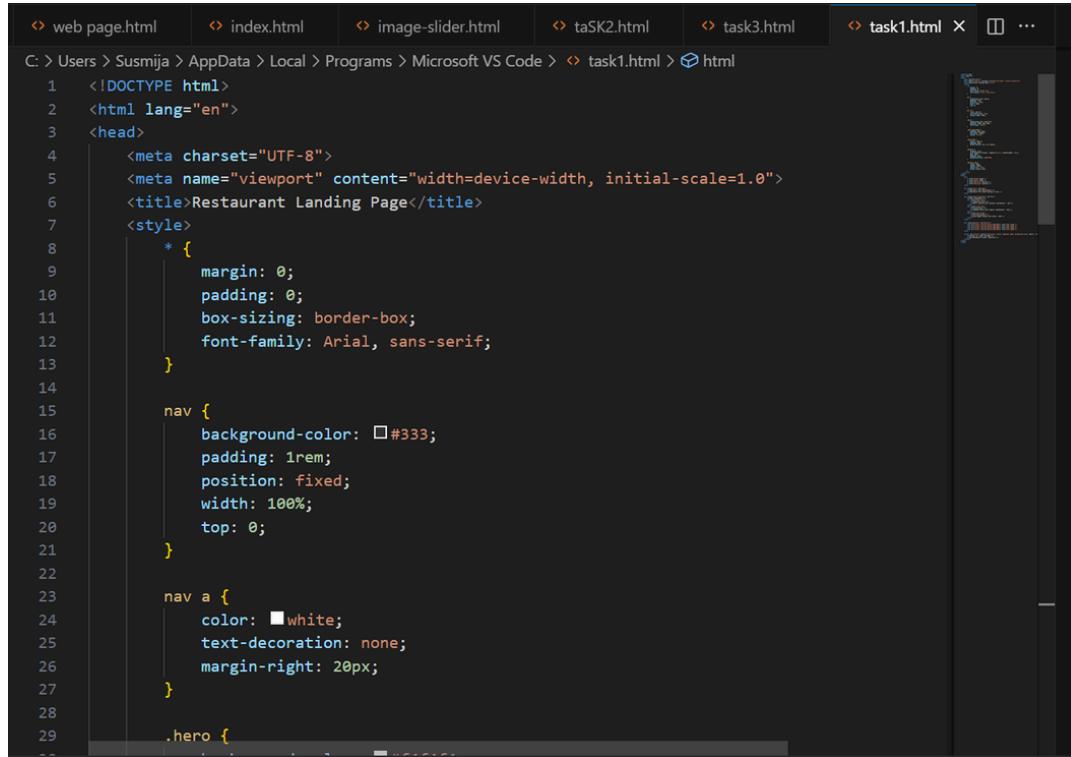
#### Scenario:

A local restaurant needs simple landing page with navigation bar, menu highlights, and an image gallery. The developer wants to quickly generate it using AI assistance.

#### Prompt:

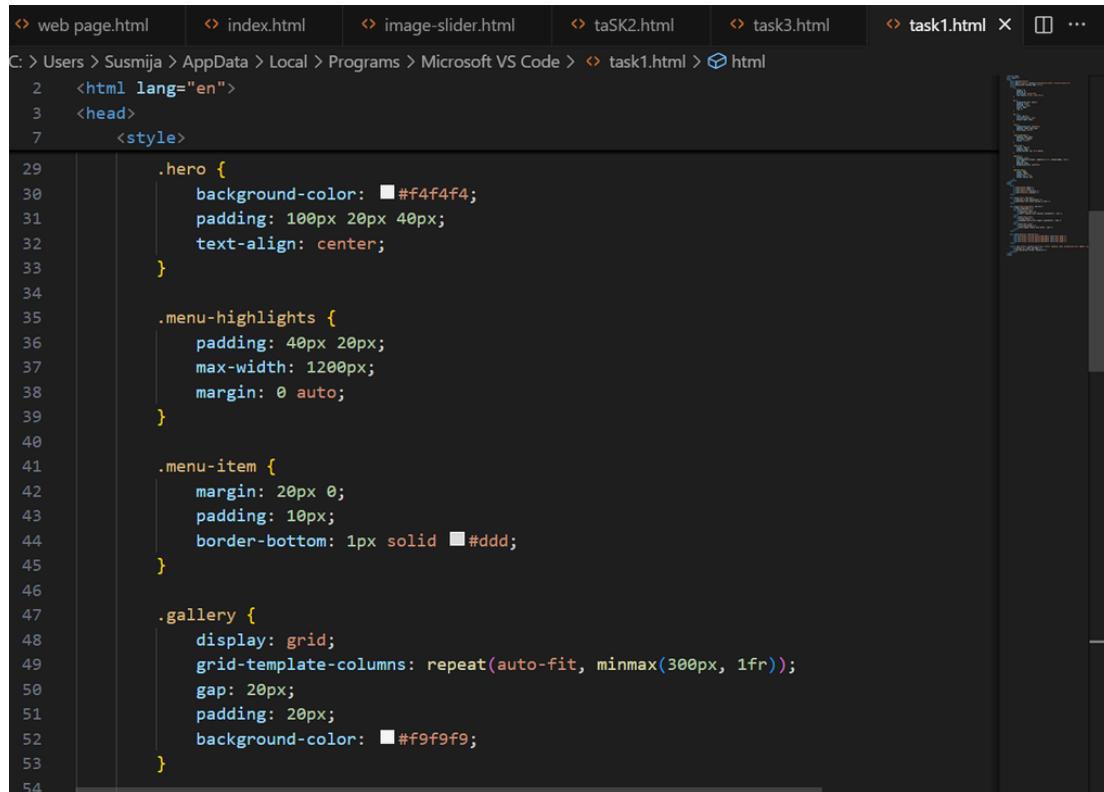
A local restaurant needs simple landing page with navigation bar, menu highlights, and an image gallery.

## Code generated:



C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > task1.html > html

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Restaurant Landing Page</title>
7      <style>
8          * {
9              margin: 0;
10             padding: 0;
11             box-sizing: border-box;
12             font-family: Arial, sans-serif;
13         }
14
15         nav {
16             background-color: #333;
17             padding: 1rem;
18             position: fixed;
19             width: 100%;
20             top: 0;
21         }
22
23         nav a {
24             color: white;
25             text-decoration: none;
26             margin-right: 20px;
27         }
28
29         .hero {
```



C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > task1.html > html

```
2  <html lang="en">
3  <head>
7  <style>
29      .hero {
30          background-color: #f4f4f4;
31          padding: 100px 20px 40px;
32          text-align: center;
33      }
34
35      .menu-highlights {
36          padding: 40px 20px;
37          max-width: 1200px;
38          margin: 0 auto;
39      }
40
41      .menu-item {
42          margin: 20px 0;
43          padding: 10px;
44          border-bottom: 1px solid #ddd;
45      }
46
47      .gallery {
48          display: grid;
49          grid-template-columns: repeat(auto-fit, minmax(300px, 1fr));
50          gap: 20px;
51          padding: 20px;
52          background-color: #f9f9f9;
53      }
```

```
④ web page.html ④ index.html ④ image-slider.html ④ taSK2.html ④ task3.html ④ task1.html X ⏎ ...  
C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > ④ task1.html > ⚡ html  
2   <html lang="en">  
3     <head>  
4       <style>  
5         .gallery img {  
6           width: 100%;  
7           height: 200px;  
8           object-fit: cover;  
9           border-radius: 8px;  
10        }  
11      </style>  
12    </head>  
13    <body>  
14      <nav>  
15        <a href="#home">Home</a>  
16        <a href="#menu">Menu</a>  
17        <a href="#gallery">Gallery</a>  
18        <a href="#contact">Contact</a>  
19      </nav>  
20  
21      <div class="hero" id="home">  
22        <h1>Welcome to Our Restaurant</h1>  
23        <p>Experience the finest dining in town</p>  
24      </div>  
25  
26      <div class="menu-highlights" id="menu">  
27        <h2>Menu Highlights</h2>  
28        <div class="menu-item">  
29          <h3>Signature Dish</h3>  
30          <p>Chef's special with seasonal ingredients - $24</p>  
31        </div>  
32        <div class="menu-item">  
33          <h3>Fresh Pasta</h3>  
34          <p>Handmade daily with organic ingredients - $18</p>  
35        </div>  
36        <div class="menu-item">  
37          <h3>Grilled Salmon</h3>  
38          <p>Wild-caught salmon with herbs - $26</p>  
39        </div>  
40      </div>  
41  
42      <div class="gallery" id="gallery">  
43          
44          
45          
46          
47      </div>  
48  
49      <footer id="contact" style="text-align: center; padding: 20px; background-color: #333;">  
50        <p>Contact us: (555) 123-4567</p>  
51        <p>123 Restaurant Street, Foodville</p>  
52      </footer>
```

```
④ web page.html ④ index.html ④ image-slider.html ④ taSK2.html ④ task3.html ④ task1.html X ⏎ ...  
C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > ④ task1.html > ⚡ html  
2   <html lang="en">  
63    <body>  
76      <div class="menu-highlights" id="menu">  
77        <h2>Menu Highlights</h2>  
78        <div class="menu-item">  
79          <h3>Signature Dish</h3>  
80          <p>Chef's special with seasonal ingredients - $24</p>  
81        </div>  
82        <div class="menu-item">  
83          <h3>Fresh Pasta</h3>  
84          <p>Handmade daily with organic ingredients - $18</p>  
85        </div>  
86        <div class="menu-item">  
87          <h3>Grilled Salmon</h3>  
88          <p>Wild-caught salmon with herbs - $26</p>  
89        </div>  
90      </div>  
91  
92      <div class="gallery" id="gallery">  
93          
94          
95          
96          
97      </div>  
98  
99      <footer id="contact" style="text-align: center; padding: 20px; background-color: #333;">  
100        <p>Contact us: (555) 123-4567</p>  
101        <p>123 Restaurant Street, Foodville</p>  
102      </footer>
```

```
web page.html index.html image-slider.html taSK2.html task3.html task1.html ...  
C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > task1.html > html  
2   <html lang="en">  
63  <body>  
76    <div class="menu-highlights" id="menu">  
89      </div>  
90    </div>  
91  
92    <div class="gallery" id="gallery">  
93        
94        
95        
96        
97    </div>  
98  
99    <footer id="contact" style="text-align: center; padding: 20px; background-color: #333;">  
100      <p>Contact us: (555) 123-4567</p>  
101      <p>123 Restaurant Street, Foodville</p>  
102    </footer>  
103  </body>  
104 </html>
```

## Output:

Home Menu Gallery Contact

# Welcome to Our Restaurant

Experience the finest dining in town

## Menu Highlights

### Signature Dish

Chef's special with seasonal ingredients - \$24

### Fresh Pasta

Handmade daily with organic ingredients - \$18

### Grilled Salmon

Wild-caught salmon with herbs - \$26

Home Menu Gallery Contact



Contact us: (555) 123-4567  
123 Restaurant Street, Foodville

## Observation:

The code designs a simple and responsive restaurant landing page with a sticky navigation bar, a menu section styled using CSS cards, and an interactive JavaScript-based image slider for the gallery. The layout is clean, user-friendly, and effectively highlights the restaurant's offerings while ensuring easy navigation.

## **Task #3:**

### **AI-Powered Event Registration Form**

#### **Scenario:**

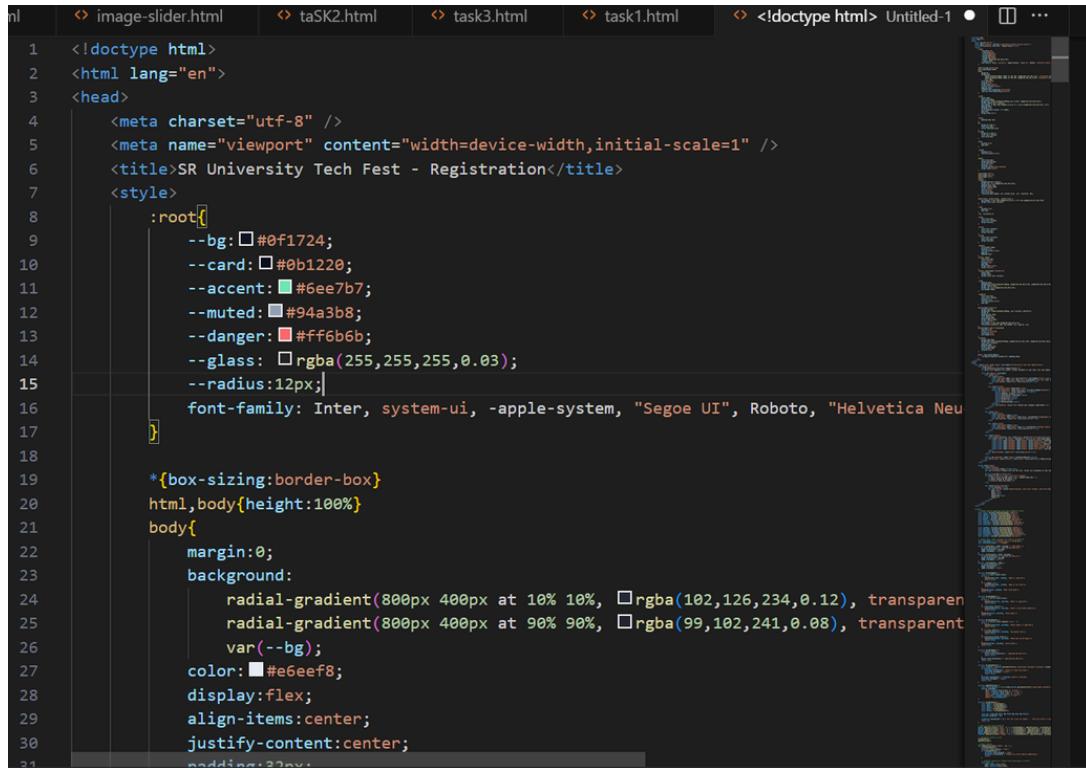
SR University is hosting a tech fest. They need a web-based registration form for students. The form must validate user input in real-time.

#### **Prompt:**

SR University is hosting a tech fest. They need a web-based registration form for students. The form must validate user input in real-time. generate an HTML form (fields: Name, Email, Phone, Department, Event Selection). Assist in adding CSS styling for an attractive form layout.

- Implement JavaScript validation (e.g., email format check, phone number length check) using Copilot's suggestions. Give js html css in single file.

#### **Code generated:**



A screenshot of a code editor interface, likely VS Code, showing a file named 'task3.html'. The code is a stylized CSS snippet for a registration form. It includes a global style for the root element (:root) with various color variables like --bg, --card, etc. It also includes a style for the body element with a radial gradient background and flexbox properties for centering content.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width,initial-scale=1" />
    <title>SR University Tech Fest - Registration</title>
    <style>
        :root{
            --bg:#0f1724;
            --card:#0b1220;
            --accent:#6ee7b7;
            --muted:#94a3b8;
            --danger:#ff6b6b;
            --glass:#rgba(255,255,255,0.03);
            --radius:12px;
            font-family: Inter, system-ui, -apple-system, "Segoe UI", Roboto, "Helvetica Neue", sans-serif;
        }
        *{box-sizing:border-box}
        html,body{height:100%}
        body{
            margin:0;
            background:
                radial-gradient(800px 400px at 10% 10%, #rgba(102,126,234,0.12), transparent),
                radial-gradient(800px 400px at 90% 90%, #rgba(99,102,241,0.08), transparent)
            var(--bg);
            color:#6eeef8;
            display:flex;
            align-items:center;
            justify-content:center;
            padding:0 20px;
        }
    </style>
</head>
<body>
    <h1>SR University Tech Fest - Registration</h1>
    <form>
        <div>
            <label>Name:</label>
            <input type="text" />
        </div>
        <div>
            <label>Email:</label>
            <input type="email" />
        </div>
        <div>
            <label>Phone:</label>
            <input type="tel" />
        </div>
        <div>
            <label>Department:</label>
            <input type="text" />
        </div>
        <div>
            <label>Event Selection:</label>
            <input type="text" />
        </div>
        <div>
            <button type="submit">Register</button>
        </div>
    </form>
</body>
</html>
```

A screenshot of a code editor showing a CSS file for a card component. The code includes styles for the body, .card, and .card components.

```
<html lang="en">
<head>
<style>

    *{box-sizing:border-box}
    html,body{height:100%}
    body{
        margin:0;
        background:
            radial-gradient(800px 400px at 10% 10%, transparent, transparent var(--bg));
        color:#6eeef8;
        display:flex;
        align-items:center;
        justify-content:center;
        padding:32px;
        -webkit-font-smoothing:antialiased;
        -moz-osx-font-smoothing:grayscale;
    }

    .card{
        width:100%;
        max-width:900px;
        background:linear-gradient(180deg,var(--card), transparent);
        border-radius:var(--radius);
        box-shadow: 0 10px 30px transparent, 0 1px 0 transparent;
        padding:28px;
        display:grid;
        grid-template-columns: 1fr 420px;
    }

</style>
```

A screenshot of a code editor showing a CSS file for a form component. The code includes styles for .hero, h1, p.lead, form, .field, and label.

```
<html lang="en">
<head>
<style>

    .hero{
        padding:18px 8px;
    }
    h1{
        margin:0 0 8px 0;
        font-size:20px;
        letter-spacing:0.2px;
    }
    p.lead{
        margin:0 0 18px 0;
        color:var(--muted);
        font-size:14px;
    }

    form{
        display:grid;
        gap:12px;
    }

    .field{
        display:flex;
        flex-direction:column;
    }

    label{
        font-size:13px;
        margin-bottom:8px;
    }

</style>
```

```
image-slider.html    taSK2.html    task3.html    task1.html    <!doctype html> Untitled-1 ● □ ...  
  
<html lang="en">  
  <head>  
    <style>  
      input[type="text"],  
      input[type="email"],  
      input[type="tel"],  
      select,  
      .events {  
        background:var(--glass);  
        border:1px solid #rgba(255,255,255,0.04);  
        padding:12px 14px;  
        border-radius:10px;  
        color:inherit;  
        outline:none;  
        font-size:14px;  
        transition:box-shadow .15s, border-color .15s, transform .05s;  
      }  
  
      input:focus, select:focus, .events:focus {  
        box-shadow: 0 6px 18px #rgba(0,0,0,0.6), 0 0 0 4px #rgba(110,231,183,0.06);  
        border-color:var(--accent);  
      }  
  
      .row{  
        display:flex;  
        gap:12px;  
      }  
      .row .field{flex:1}  
  
      .hint{
```

```
image-slider.html    taSK2.html    task3.html    task1.html    <!doctype html> Untitled-1 ● □ ...  
  
<html lang="en">  
  <head>  
    <style>  
      .hint{  
        font-size:12px;  
        color:var(--muted);  
        margin-top:6px;  
      }  
  
      .error{  
        color:var(--danger);  
        font-size:13px;  
        margin-top:6px;  
      }  
      .valid{  
        color:var(--accent);  
        font-size:13px;  
        margin-top:6px;  
      }  
  
      .events{  
        min-height:110px;  
        display:flex;  
        flex-direction:column;  
        gap:6px;  
        padding:12px;  
      }  
      .events label{  
        font-size:13px;  
        color:inherit;  
        display:flex;
```

```
2 <html lang="en">
3 <head>
7   <style>
32     .events label{
33       display:flex;
34       gap:10px;
35       align-items:center;
36       cursor:pointer;
37     }
38     .events input[type="checkbox"]{
39       width:16px;
40       height:16px;
41       accent-color:var(--accent);
42     }
43
44     .side{
45       padding:18px;
46       background:linear-gradient(180deg, □rgba(255,255,255,0.02), □rgba(255,255,255,
47       border-radius:10px;
48       border:1px solid □rgba(255,255,255,0.02);
49       min-height:260px;
50     }
51
52     .summary{
53       font-size:13px;
54       color:var(--muted);
55       display:flex;
56       flex-direction:column;
57       gap:10px;
58     }
59   </style>
60 </head>
61 <body>
62   <div class="events">
63     <input type="checkbox"/>
64     <span>Event</span>
65   </div>
66   <div class="side">
67     <div>
68       <span>Side</span>
69     </div>
70   </div>
71   <div class="summary">
72     <span>Summary</span>
73   </div>
74 </body>
75 </html>
```

```
2 <html lang="en">
3 <head>
7   <style>
20     button[type="submit"]{
21       margin-top:8px;
22       background: linear-gradient(90deg, var(--accent), □#3b82f6);
23       border:0;
24       padding:12px 14px;
25       color:□#042017;
26       font-weight:600;
27       border-radius:10px;
28       cursor:pointer;
29       box-shadow: 0 8px 20px □rgba(59,130,246,0.12);
30       transition:transform .08s, box-shadow .12s, opacity .12s;
31     }
32     button[type="submit"]:disabled{
33       opacity:0.45;
34       cursor:not-allowed;
35       transform:none;
36       box-shadow:none;
37     }
38     .success{
39       margin-top:12px;
40       background:linear-gradient(90deg, □rgba(110,231,183,0.08), □rgba(59,130,246,0.
41       color:var(--accent);
42       padding:10px;
43       border-radius:8px;
44       font-weight:600;
45       display:none;
46     }
47   </style>
48 </head>
49 <body>
50   <button>Submit</button>
51 </body>
52 </html>
```

```
2 <html lang="en">
195 <body>
282   <script>
411     // Wire up real-time validation
412     nameEl.addEventListener('input', () => { validateName(); updatePreview(); validateFo
413     emailEl.addEventListener('input', () => { validateEmail(); updatePreview(); validate
414     phoneEl.addEventListener('input', () => { validatePhone(); updatePreview(); validate
415     deptEl.addEventListener('change', () => { validateDept(); updatePreview(); validateF
416     eventsEl.addEventListener('change', () => { validateEvents(); updatePreview(); valid
417
418     // Initialize states on load
419     validateForm();
420     updatePreview();
421
422     // Submit handler
423     form.addEventListener('submit', (e) => {
424       e.preventDefault();
425       successEl.style.display = 'none';
426       if (!validateForm()) {
427         successEl.style.display = 'none';
428         formStatus.textContent = 'Please fix errors before submitting.';
429         return;
430       }
431
432       // Simulate submission (replace with fetch/ajax to server)
433       const data = {
434         name: nameEl.value.trim(),
435         email: emailEl.value.trim(),
436         phone: phoneEl.value.trim(),
437         department: deptEl.value,
438       };
439
440       // Mock delay to mimic network call
441       submitBtn.disabled = true;
442       submitBtn.textContent = 'Submitting...';
443       setTimeout(() => {
444         successEl.style.display = 'block';
445         successEl.textContent = 'Registration successful! Thank you.';
446         submitBtn.textContent = 'Register';
447         // Optionally reset form:
448         // form.reset();
449         // Clear styles and re-validate for fresh state
450         submitBtn.disabled = false;
451         validateForm();
452       }, 800);
453
454       console.log('Submitted data:', data);
455     });
456   </script>
457 </body>
458 </html>
```

```
2 <html lang="en">
195 <body>
282   <script>
423     form.addEventListener('submit', (e) => {
424       const data = {
425         events: Array.from(eventsEl.querySelectorAll('input[type="checkbox"]':checked
426       );
427
428       // Mock delay to mimic network call
429       submitBtn.disabled = true;
430       submitBtn.textContent = 'Submitting...';
431       setTimeout(() => {
432         successEl.style.display = 'block';
433         successEl.textContent = 'Registration successful! Thank you.';
434         submitBtn.textContent = 'Register';
435         // Optionally reset form:
436         // form.reset();
437         // Clear styles and re-validate for fresh state
438         submitBtn.disabled = false;
439         validateForm();
440       }, 800);
441
442       console.log('Submitted data:', data);
443     });
444   </script>
445 </body>
446 </html>
```

## Output:

The screenshot shows a registration form with the following fields:

- Name:** susmija punnam (Validation message: Name looks good)
- Department:** Computer Science
- Email:** punnamsusmija@gmail.com (Validation message: Valid email)
- Phone:** 7674905200 (Validation message: Valid phone)

**Event Selection:** (Choose one or more)

- Hackathon
- Coding Contest
- Robotics
- Paper Presentation
- UI/UX Design
- Tech Quiz

**Preview:**

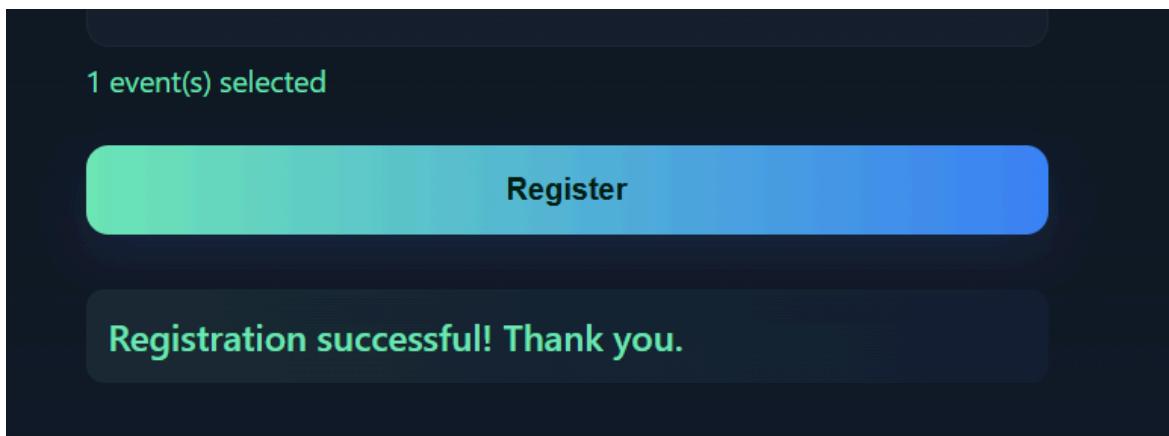
- Use a valid college email (e.g., name@college.edu)
- Phone should be 10 digits
- Pick at least one event

**Registration Summary:**

- Name: susmija punnam
- Email: punnamsusmija@gmail.com
- Phone: 7674905200
- Department: Computer Science
- Events: Hackathon

**Buttons:**

- Valid email
- Valid phone
- Register



## Observation:

The code provides a modern, responsive registration form with fields for student details and event selection. It uses CSS for an attractive layout and JavaScript for real-time validation (checking email format, phone length, and required fields). Error messages are displayed instantly, and a success message confirms registration, making the form both user-friendly and reliable.

## Task#4:

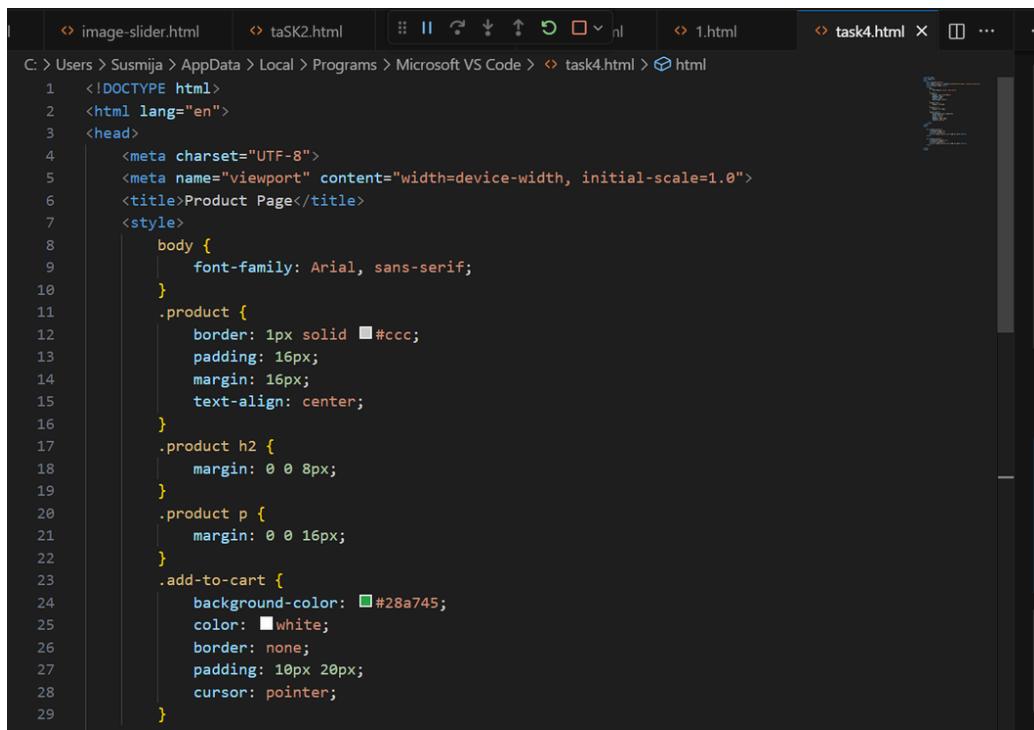
### AI-Assisted E-Commerce Product Page

#### Prompt:

A startup wants a basic e-commerce product page to display products with prices and an “Add to Cart” button.

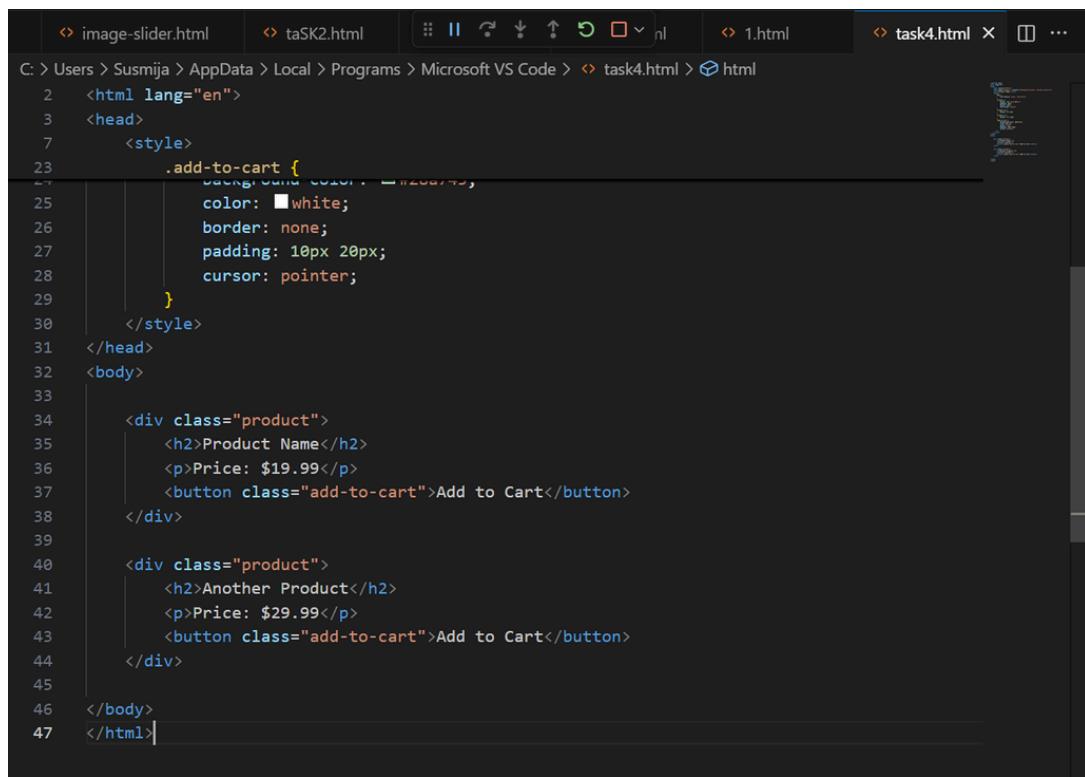
- generate a grid-based product catalog in HTML/CSS.
- include a cart counter at the top-right corner of the page. give html,css and js in the same file.

## Code generated:



```
C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > task4.html > html
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Product Page</title>
7      <style>
8          body {
9              font-family: Arial, sans-serif;
10         }
11         .product {
12             border: 1px solid #ccc;
13             padding: 16px;
14             margin: 16px;
15             text-align: center;
16         }
17         .product h2 {
18             margin: 0 0 8px;
19         }
20         .product p {
21             margin: 0 0 16px;
22         }
23         .add-to-cart {
24             background-color: #28a745;
25             color: white;
26             border: none;
27             padding: 10px 20px;
28             cursor: pointer;
29         }

```



```
C: > Users > Susmija > AppData > Local > Programs > Microsoft VS Code > task4.html > html
2  <html lang="en">
3  <head>
7      <style>
23         .add-to-cart {
24             background-color: #28a745;
25             color: white;
26             border: none;
27             padding: 10px 20px;
28             cursor: pointer;
29         }
30     </style>
31 </head>
32 <body>
33
34     <div class="product">
35         <h2>Product Name</h2>
36         <p>Price: $19.99</p>
37         <button class="add-to-cart">Add to Cart</button>
38     </div>
39
40     <div class="product">
41         <h2>Another Product</h2>
42         <p>Price: $29.99</p>
43         <button class="add-to-cart">Add to Cart</button>
44     </div>
45
46 </body>
47 </html>
```

## Output:

## Shop Our Products



 <b>Wireless Headphones</b> Comfort fit, HD sound, long battery life. ₹2,499 <a href="#" style="background-color: #e63935; color: white; padding: 5px 10px; border-radius: 5px;">Add to Cart</a>	 <b>Smart Watch</b> Fitness tracking, notifications, 7-day battery. ₹3,299 <a href="#" style="background-color: #e63935; color: white; padding: 5px 10px; border-radius: 5px;">Add to Cart</a>	 <b>sony bravia</b> smart features, 4k ultra, QLED display. ₹71,799 <a href="#" style="background-color: #e63935; color: white; padding: 5px 10px; border-radius: 5px;">Add to Cart</a>	 <b>shoe</b> comfortable, high quality, good for exercise. ₹1,099 <a href="#" style="background-color: #e63935; color: white; padding: 5px 10px; border-radius: 5px;">Add to Cart</a>
---	---	--	--

### Observation:

The code creates a basic e-commerce product page using HTML, CSS, and JavaScript in a single file. It displays products in a responsive grid layout with images, names, prices, and an “Add to Cart” button. A cart counter is placed at the top-right corner inside the header and dynamically updates whenever the user clicks “Add to Cart.” The implementation is simple, lightweight, and serves as a starting point for building a full shopping cart system.