**Exercises:**

1. **Task Implementation:**

**HTML (index.html):**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Community Event Portal</title>

<!-- Internal CSS -->

<style>

body {

background-color: #f4f4f4; /\* Light gray background \*/

}

</style>

<!-- External CSS -->

<link rel="stylesheet" href="styles.css">

</head>

<body>

<h1 style="color: red;">Welcome to Our Community Events!</h1>

<h2 id="mainHeader">Upcoming Events</h2>

<div class="eventCard">

<h3>Summer Festival</h3>

<p>Join us for food, music, and fun!</p>

</div>

</body>

</html>

**2. CSS Syntax and Comments**

**External CSS (styles.css):**

/\* ========================= \*/

/\* Header styles \*/

/\* ========================= \*/

#mainHeader {

font-size: 2em;

color: #333;

}

/\* ========================= \*/

/\* Style for main CTA button \*/

/\* ========================= \*/

.cta-button {

background-color: #007BFF;

color: white;

padding: 10px 20px;

border: none;

border-radius: 5px;

}

/\* ========================= \*/

/\* General Layout \*/

/\* ========================= \*/

body {

font-family: 'Roboto', sans-serif;

}

**3. Selectors Playground**

/\* Reset default spacing \*/

\* {

margin: 0;

padding: 0;

}

/\* All <h2> headers \*/

h2 {

font-weight: bold;

}

/\* Banner ID \*/

#mainHeader {

background-color: #e0e0e0;

padding: 15px;

}

/\* Event card container \*/

.eventCard {

border: 1px solid #ccc;

padding: 20px;

margin: 10px;

background-color: white;

}

/\* Group styling \*/

h3, p {

color: #555;

font-family: Arial, sans-serif;

}

**4. Color & Background Styling**

body {

background: #fdf6e3 url('images/bg.jpg') no-repeat center center fixed;

background-size: cover;

}

/\* Using HEX \*/

.eventCard h3 {

color: #2a2a2a;

}

/\* Using RGBA \*/

.eventCard p {

background-color: rgba(255, 255, 255, 0.8);

padding: 10px;

}

/\* Gradient for section headers \*/

#mainHeader {

background: linear-gradient(to right, #0066cc, #3399ff);

color: white;

}

**5. Typography: Fonts and Text**

**In <head>:**

<link href="https://fonts.googleapis.com/css2?family=Roboto&display=swap" rel="stylesheet">

**In styles.css:**

body {

font-family: 'Roboto', sans-serif;

line-height: 1.6;

}

h1 {

font-size: 3em;

text-transform: uppercase;

}

.eventCard p {

font-size: 1.1em;

text-align: justify;

letter-spacing: 0.5px;

}

**6. Link and List Styling**

/\* Links \*/

a:link {

color: #007BFF;

}

a:hover {

color: #0056b3;

}

a:active {

color: #003f7f;

}

a:visited {

color: #551A8B;

}

/\* List styling \*/

ul.nav-menu {

list-style-type: none;

padding: 0;

margin: 0;

}

ul.nav-menu li {

display: inline-block;

margin-right: 15px;

}

**7. Table Styling**

table {

width: 100%;

border-collapse: collapse;

}

th, td {

border: 1px solid #ddd;

padding: 8px;

text-align: center;

}

tr:nth-child(even) {

background-color: #f9f9f9;

}

**8. Box Model & Layout Control**

.eventCard {

border: 1px solid #ccc;

padding: 20px;

margin: 20px;

}

/\* Form field highlight \*/

input:focus, textarea:focus {

outline: 2px solid #007BFF;

}

/\* Visibility comparison \*/

.hidden-example {

visibility: hidden; /\* Takes up space \*/

}

.none-example {

display: none; /\* Removed from layout \*/

}

**9. Multiple Columns in Text**

.news-article {

column-count: 2;

column-gap: 30px;

column-rule: 1px solid gray;

}

**10. Responsive Web Design with Media Queries**

@media (max-width: 768px) {

.nav-menu li {

display: block;

margin-bottom: 10px;

}

body {

font-size: 90%;

}

img {

width: 100%;

height: auto;

}

eventCard {

width: 90%;

margin: auto;

}

}

/\* Flexbox example \*/

.nav-menu {

display: flex;

flex-wrap: wrap;

justify-content: space-around;

}

**11. Debug and Test with Dev Tools and VS Code**

**Steps:**

* Open Chrome DevTools (F12 or right-click → Inspect).
* Use the **Device Toolbar** (top left icon) to simulate phones/tablets.
* Use **Elements** panel to inspect styles live.
* Modify margins, padding, and fonts directly.
* Use **Network tab** to ensure styles.css is properly linked (check 200 OK status).