NAME-Snigdha Ghosh

UID-23ICS10004

Sub-Full Stack

<u>Practice1</u>

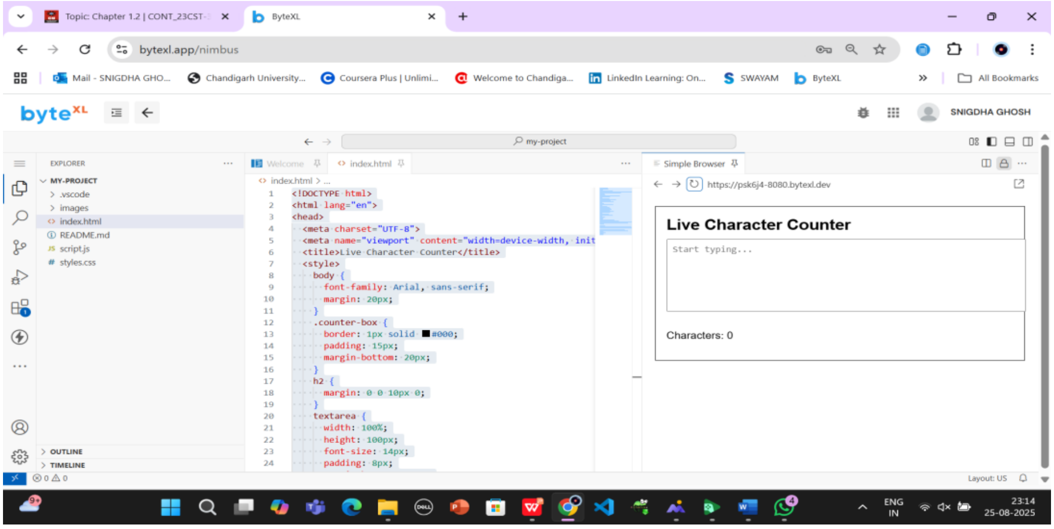
CODE-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Live Character Counter</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 20px;
    }
    .counter-box {
      border: 1px solid #000;
      padding: 15px;
      margin-bottom: 20px;
    }
    h2 {
      margin: 0 0 10px 0;
    }
    textarea {
      width: 100%;
      height: 100px;
      font-size: 14px;
      padding: 8px;
      margin-bottom: 10px;
      resize: none;
    }
    .char-count {
      font-weight: bold;
    }
  </style>
</head>
<body>
  <div class="counter-box">
    <h2>Live Character Counter</h2>
    <textarea id="textInput" placeholder="Start typing..."></textarea>
    <p>Characters: <span id="charCount">0</span></p>
  </div>

  <script>
    const textarea = document.getElementById("textInput");
    const charCount = document.getElementById("charCount");

    textarea.addEventListener("input", () => {
      charCount.textContent = textarea.value.length;
    });
  </script>
</body>
</html>
```

OUTPUT

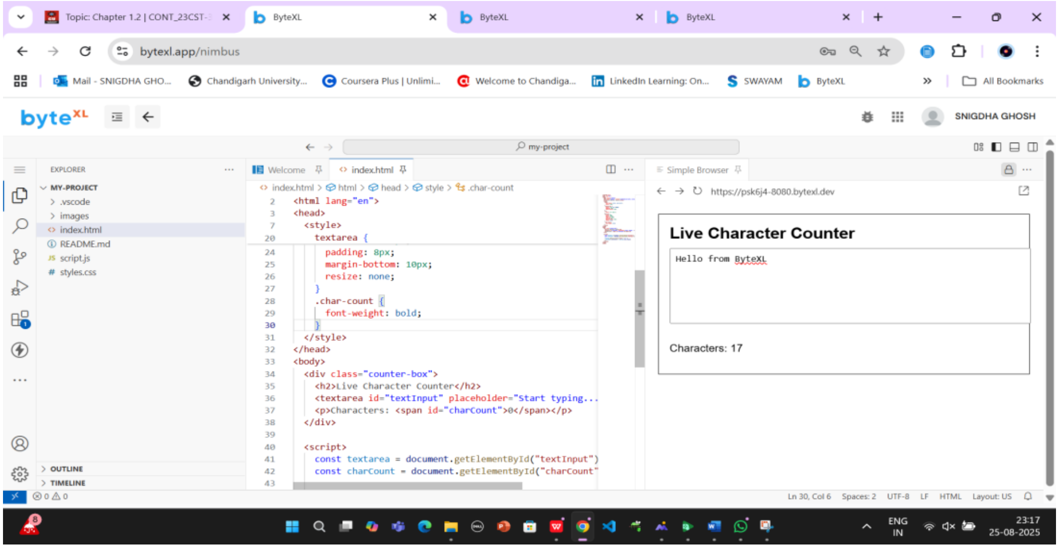


```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, init
  <title>Live Character Counter</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 20px;
    }
    .counter-box {
      border: 1px solid ■#000;
      padding: 15px;
      margin-bottom: 20px;
    }
    h2 {
      margin: 0 0 10px 0;
    }
    textarea {
      width: 100%;
      height: 100px;
      font-size: 14px;
      padding: 8px;
```

Live Character Counter

Start typing...

Characters: 0



```
<html lang="en">
<head>
  <style>
    textarea {
      padding: 8px;
      margin-bottom: 10px;
      resize: none;
    }
    .char-count {
      font-weight: bold;
    }
  </style>
</head>
<body>
  <div class="counter-box">
    <h2>Live Character Counter</h2>
    <textarea id="textInput" placeholder="Start typing...
    <p>Characters: <span id="charCount">0</span></p>
  </div>

  <script>
    const textarea = document.getElementById("textInput")
    const charCount = document.getElementById("charCount"
```

Live Character Counter

Hello from ByteXL

Characters: 17

Practice2

CODE-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Dynamic Product Filter</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 20px;
    }
    .container {
      border: 1px solid #333;
      padding: 15px;
      margin-bottom: 20px;
    }
    h2 {
      margin-bottom: 10px;
    }
    select {
      margin-bottom: 15px;
      padding: 5px;
    }
    ul {
      list-style-type: none;
      padding: 0;
    }
    li {
      border: 1px solid #ddd;
      padding: 8px;
      margin: 4px 0;
      border-radius: 5px;
    }
  </style>
</head>
<body>
```

```
<div class="container">
  <h2>Product List</h2>
  <label for="category">Filter by Category: </label>
  <select id="category">
    <option value="all">All</option>
    <option value="clothing">Clothing</option>
    <option value="electronics">Electronics</option>
    <option value="books">Books</option>
  </select>

  <ul id="product-list">
    <li data-category="clothing">T-Shirt</li>
    <li data-category="clothing">Jeans</li>
    <li data-category="electronics">Headphones</li>
    <li data-category="electronics">Smartphone</li>
    <li data-category="books">Novel</li>
    <li data-category="books">Cookbook</li>
  </ul>
</div>

<script>
  const dropdown = document.getElementById("category");
  const products = document.querySelectorAll("#product-list li");

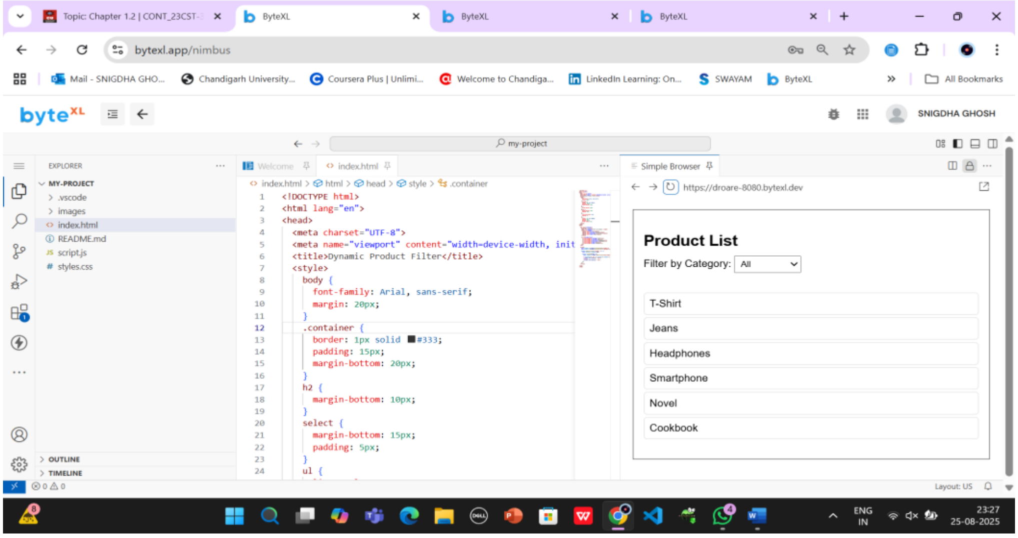
  dropdown.addEventListener("change", () => {
    const selected = dropdown.value;

    products.forEach(product => {
      const category = product.getAttribute("data-category");
```

```
        if (selected === "all" || selected === category) {
          product.style.display = "block";
        } else {
          product.style.display = "none";
        }
      });
    });
  </script>

</body>
</html>
```

OUTPUT



```
<!DOCTYPE html>
<html lang="en">
<head>
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  <meta name="viewport" content="width=device-width, init
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      padding: 15px;
      margin-bottom: 20px;
    }
    h2 {
      margin-bottom: 10px;
    }
    select {
      margin-bottom: 15px;
      padding: 5px;
    }
    ul {
```

Product List

Filter by Category: All

T-Shirt

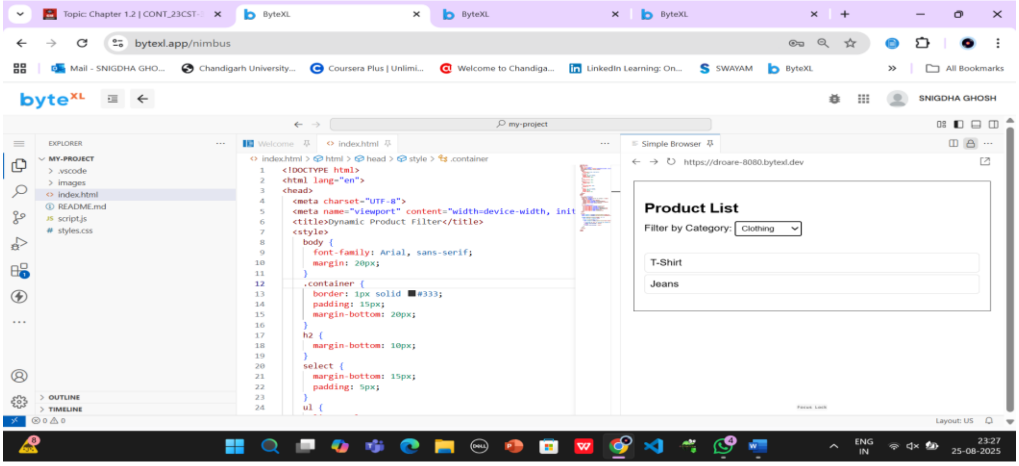
Jeans

Headphones

Smartphone

Novel

Cookbook



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<!DOCTYPE html>
<html lang="en">
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  <style>
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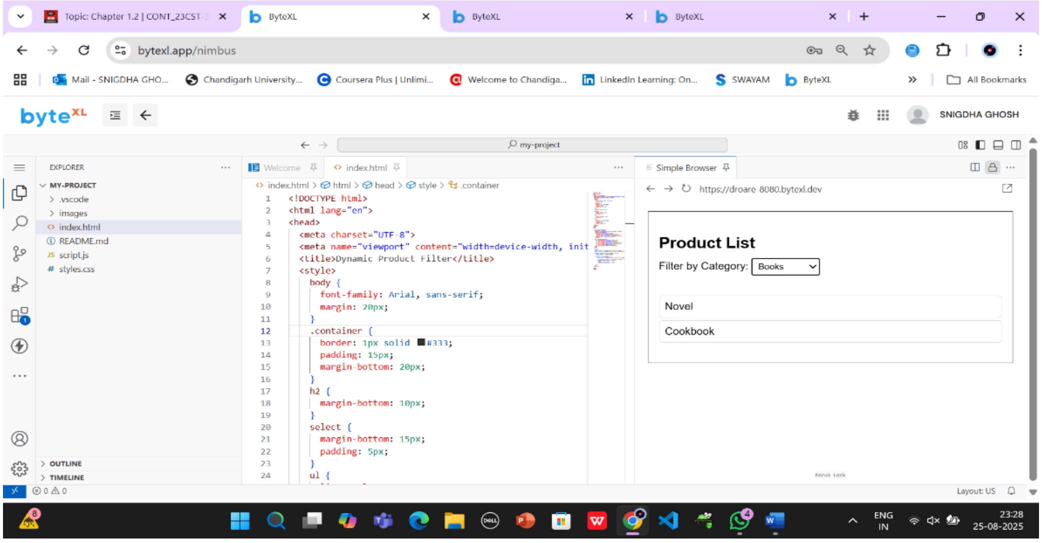
      margin: 20px;
    }
    .container {
      border: 1px solid #333;
      padding: 15px;
      margin-bottom: 20px;
    }
    h2 {
      margin-bottom: 10px;
    }
    select {
      margin-bottom: 15px;
      padding: 5px;
    }
    ul {
```

Product List

Filter by Category: Clothing

T-Shirt

Jeans



```
<!DOCTYPE html>
<html lang="en">
<head>
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  <meta name="viewport" content="width=device-width, init
  <title>Dynamic Product Filter</title>
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    }
    h2 {
      margin-bottom: 10px;
    }
    select {
      margin-bottom: 15px;
      padding: 5px;
    }
    ul {
```

Product List

Filter by Category: Books

Novel

Cookbook

Practice3

CODE-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>SVG Drawing Tool</title>
  <style>
    body { font-family: Arial, sans-serif; padding: 20px; }
    .container {
      border: 1px solid #333;
      padding: 10px;
      display: inline-block;
    }
    .title { font-weight: bold; margin-bottom: 8px; }
    svg {
      border: 1px solid #333;
      background: #f9f9f9;
      cursor: crosshair;
    }
  </style>
</head>
<body>
  <div class="container">
    <div class="title">SVG Drawing Tool</div>
    <svg id="drawingArea" width="600" height="400"></svg>
  </div>

  <script>
    const svg = document.getElementById("drawingArea");
    let drawing = false;
    let currentPath = null;

    // Convert mouse coords to SVG coords
    function getMousePosition(evt) {
      const rect = svg.getBoundingClientRect();
      return {
        x: evt.clientX - rect.left,
        y: evt.clientY - rect.top
      };
    }

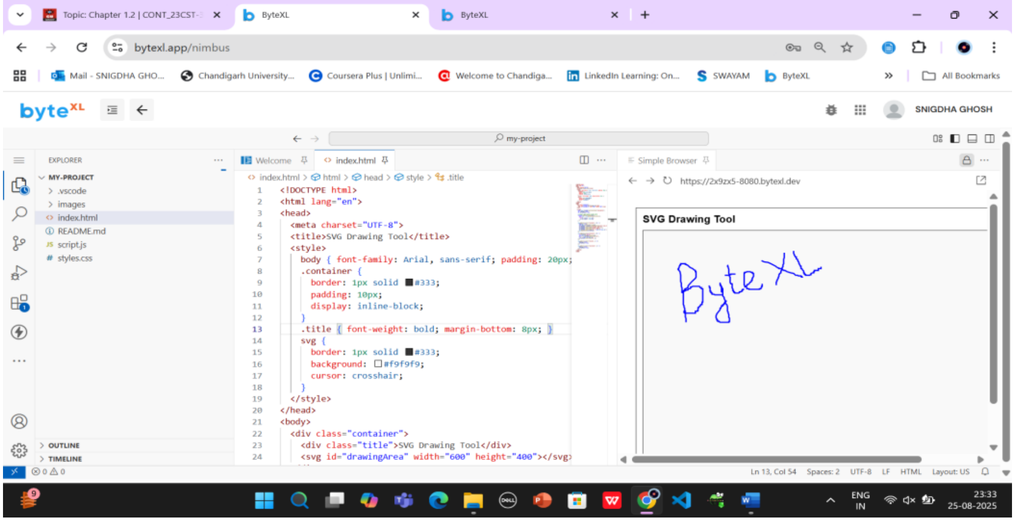
    svg.addEventListener("mousedown", (e) => {
      drawing = true;
      const pos = getMousePosition(e);
      currentPath = document.createElementNS("http://www.w3.org/2000/svg", "path");
      currentPath.setAttribute("stroke", "blue");
      currentPath.setAttribute("stroke-width", "2");
      currentPath.setAttribute("fill", "none");
      currentPath.setAttribute("d", M ${pos.x} ${pos.y});
      svg.appendChild(currentPath);
    });

    svg.addEventListener("mousemove", (e) => {
      if (!drawing) return;
      const pos = getMousePosition(e);
      let d = currentPath.getAttribute("d");
      d += ` L ${pos.x} ${pos.y}`;
      currentPath.setAttribute("d", d);
    });

    svg.addEventListener("mouseup", () => {
      drawing = false;
      currentPath = null;
    });

    svg.addEventListener("mouseleave", () => {
      drawing = false;
      currentPath = null;
    });
  </script>
</body>
</html>
```

OUTPUT



```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
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  <style>
    body { font-family: Arial, sans-serif; padding: 20px;
    .container {
      border: 1px solid #333;
      padding: 10px;
      display: inline-block;
    }
    .title { font-weight: bold; margin-bottom: 8px; }
    svg {
      border: 1px solid #333;
      background: #f9f9f9;
      cursor: crosshair;
    }
  </style>
</head>
<body>
  <div class="container">
    <div class="title">SVG Drawing Tool</div>
    <svg id="drawingArea" width="600" height="400"></svg>
```