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Subject: FULL STACK-LAB	Subject Code: 23CSP-339

Practice 1:

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initialscale=1.0">
 <title>Live Character Counter for Textarea</title>
 <style> body {
                     font-
family: Arial, sans-serif;
margin: 20px;
  .container {
                 border:
1px solid #000;
padding: 15px;
                  margin-
bottom: 20px;
                 width:
500px;
  } textarea {
width: 100%;
height: 100px;
padding: 10px;
font-size: 16px;
resize: none;
  }
  .counter {
               margin-
top: 10px;
              font-
weight: bold;
 </style>
</head>
<body>
 <div class="container">
  <h3>Live Character Counter</h3>
```

OUTPUT:

Live Character Counter Start typing... Characters: 0

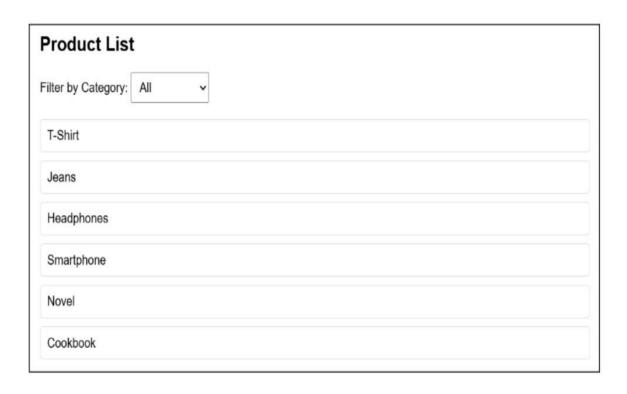
Live Character Counter Hello from ByteXL Characters: 17

PRACTICE 2:

Index.html

```
<!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;
                 border:
  .container {
1px solid #333;
padding: 15px;
margin-bottom: 20px;
   width: 500px;
      select {
                 padding:
        font-size: 16px;
margin: 10px 0 20px 10px;
  .product-list {
display: flex;
                flex-
direction: column;
gap: 10px;
  }
  .product {
                border:
1px solid #ccc;
padding: 10px;
                  border-
radius: 5px;
   font-size: 16px;
 </style>
</head>
<body>
 <div class="container">
  <h2>Product List</h2>
  <!-- Dropdown Filter -->
  <label for="categoryFilter"><b>Filter by Category:</b></label>
  <select id="categoryFilter">
   <option value="all">All</option>
   <option value="clothing">Clothing</option>
   <option value="electronics">Electronics</option>
```

```
<option value="books">Books</option>
  </select>
  <!-- Product List -->
  <div class="product-list" id="productList">
   <div class="product" data-category="clothing">T-Shirt</div>
   <div class="product" data-category="clothing">Jeans</div>
   <div class="product" data-category="electronics">Headphones</div>
   <div class="product" data-category="electronics">Smartphone</div>
   <div class="product" data-category="books">Novel</div>
   <div class="product" data-category="books">Cookbook</div>
  </div>
 </div>
 <!-- External JS -->
 <script src="script.js"></script>
</body>
</html>
script.js
const categoryFilter = document.getElementById("categoryFilter"); const
products = document.querySelectorAll(".product");
categoryFilter.addEventListener("change", () => {
 const selectedCategory = categoryFilter.value;
 products.forEach(product => { if (selectedCategory === "all" ||
product.dataset.category === selectedCategory) {
                                                    product.style.display =
"block";
  } else {
   product.style.display = "none";
 });
});
OUTPUT:
```







PRACTICE 3:

```
index.html
<!DOCTYPE html>
<a href="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>SVG Drawing Tool</title>
 <style> body {
                     font-
family: Arial, sans-serif;
margin: 20px;
  }
  .container {
                 border:
1px solid #333;
padding: 15px;
margin-bottom: 20px;
   width: 600px;
     svg {
               border:
1px solid black;
background: #f9f9f9;
width: 100%;
                height:
400px;
   cursor: crosshair;
  }
 </style>
</head>
<body>
 <div class="container">
  <h2>SVG Drawing Tool</h2>
  <svg id="drawingCanvas"></svg>
 </div>
 <!-- Link External JS -->
 <script src="script.js"></script>
</body>
</html>
script.js const svg =
document.getElementById("drawingCanvas");
let drawing = false;
let currentPath = null;
svg.addEventListener("mousedown", (e) => {
 drawing = true;
```

OUTPUT:

```
// Create a new path element
current Path = document.create Element NS ("http://www.w3.org/2000/svg", "path"); \\
currentPath.setAttribute("stroke", "blue"); currentPath.setAttribute("stroke-width",
"2");
 currentPath.setAttribute("fill", "none");
// Start path at mouse position const x =
e.offsetX; const y = e.offsetY;
currentPath.setAttribute("d", 'M ${x} ${y}');
 svg.appendChild(currentPath);
});
svg.addEventListener("mousemove", (e) => {
if (!drawing) return;
 const x = e.offsetX;
const y = e.offsetY;
// Append line segments as the mouse moves
let d = currentPath.getAttribute("d");
currentPath.setAttribute("d", `${d} L ${x} ${y}`);
});
svg.addEventListener("mouseup", () => {
 drawing = false;
});
```

SVG Drawing Tool Byte XL