**EXPERIMENT – 5**

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**Title**

Dynamic Product Filter with Dropdown using JavaScript DOM Manipulation

**Objective**

Build a web-based product list that can dynamically filter and display items based on the user's selection from a dropdown menu. This task helps you understand how to use JavaScript to manipulate the DOM, handle events, and update visible elements in real time.

CODE :

<!DOCTYPE html>

<html>

<head>

    <title>Product Filter - Basic</title>

    <style>

        body { font-family: Arial; text-align: center; }

        select { padding: 5px; margin-bottom: 20px; }

        .product { display: inline-block; width: 150px; margin: 10px; padding: 10px; border: 1px solid #ccc; }

    </style>

</head>

<body>

<h2>Filter Products</h2>

<select id="filter">

    <option value="all">All</option>

    <option value="shoes">Shoes</option>

    <option value="shirts">Shirts</option>

</select>

<div id="products">

    <div class="product" data-category="shoes">Running Shoes</div>

    <div class="product" data-category="shirts">Casual Shirt</div>

    <div class="product" data-category="shoes">Sneakers</div>

    <div class="product" data-category="shirts">Formal Shirt</div>

</div>

<script src="script.js"></script>

</body>

</html>

SCRIPT.JS

document.getElementById("filter").addEventListener("change", function() {

    let category = this.value;

    let items = document.querySelectorAll(".product");

    items.forEach(item => {

        if (category === "all" || item.dataset.category === category) {

            item.style.display = "inline-block";

        } else {

            item.style.display = "none";

        }

    });

});

STYLE.CSS

body {

  font-family: Arial, sans-serif;

  padding: 20px;

  background-color: #f8f9fa;

}

textarea {

  width: 100%;

  height: 100px;

  padding: 10px;

  font-size: 16px;

}

p {

  font-size: 18px;

  margin-top: 10px;

}

OUTPUT

