

## PRODUCT WITH CATALOG FILTERS

### Coding:

```
// Sample product data

const products = [

  { id: 1, name: "Wireless Headphones", category: "electronics", price: 80, image:
    "https://via.placeholder.com/200x150?text=Headphones" },

  { id: 2, name: "Smart Watch", category: "electronics", price: 120, image:
    "https://via.placeholder.com/200x150?text=Smart+Watch" },

  { id: 3, name: "T-Shirt", category: "clothing", price: 25, image:
    "https://via.placeholder.com/200x150?text=T-Shirt" },

  { id: 4, name: "Jeans", category: "clothing", price: 60, image:
    "https://via.placeholder.com/200x150?text=Jeans" },

  { id: 5, name: "Coffee Maker", category: "home", price: 95, image:
    "https://via.placeholder.com/200x150?text=Coffee+Maker" },

  { id: 6, name: "Vacuum Cleaner", category: "home", price: 150, image:
    "https://via.placeholder.com/200x150?text=Vacuum+Cleaner" },

];

// DOM elements

const categoryFilter = document.getElementById("category");
const priceFilter = document.getElementById("price");
const productList = document.getElementById("product-list");

// Display products

function displayProducts(items) {

  productList.innerHTML = "";

  if (items.length === 0) {

    productList.innerHTML = "<p>No products found.</p>";

    return;

  }

  items.forEach(product => {
```

```

const div = document.createElement("div");
div.classList.add("product");
div.innerHTML = `
  
  <h3>${product.name}</h3>
  <p>Category: ${product.category}</p>
  <p class="price">${product.price}</p>
`;
productList.appendChild(div);
});
}

// Filtering function
function filterProducts() {
  const categoryValue = categoryFilter.value;
  const priceValue = priceFilter.value;

  let filtered = products.filter(product => {
    let categoryMatch = categoryValue === "all" || product.category === categoryValue;

    let priceMatch = false;
    if (priceValue === "all") priceMatch = true;
    else if (priceValue === "low") priceMatch = product.price < 50;
    else if (priceValue === "medium") priceMatch = product.price >= 50 && product.price <= 100;
    else if (priceValue === "high") priceMatch = product.price > 100;

    return categoryMatch && priceMatch;
  });

  displayProducts(filtered);
}

```

```
// Event listeners
categoryFilter.addEventListener("change", filterProducts);
priceFilter.addEventListener("change", filterProducts);

// Initial display
displayProducts(products);
```