```
<!DOCTYPE html>

<html lang="en">

<head>

 <meta charset="UTF-8" />

 <meta name="viewport" content="width=device-width, initial-scale=1.0" />

 <title>Product Catalog with Filters</title>

 <style>

  Body {

   Font-family: Arial, sans-serif;

   Background: #f4f6f8;

   Margin: 0;

   Padding: 0;

  }

  Header {

   Background: #2a6592;

   Color: white;

   Padding: 1rem;

   Text-align: center;

  }

  .filters {

   Display: flex;

   Flex-wrap: wrap;

   Justify-content: center;

   Gap: 1rem;

   Background: white;

   Padding: 1rem;

   Box-shadow: 0 2px 5px rgba(0,0,0,0.1);

  }
```

```css
Select, input[type="number"], input[type="text"] {

  Padding: 0.5rem;

  Border: 1px solid #ccc;

  Border-radius: 6px;

}

#productList {

  Display: grid;

  Grid-template-columns: repeat(auto-fit, minmax(200px, 1fr));

  Gap: 1rem;

  Padding: 1rem;

}

.product-card {

  Background: white;

  Border-radius: 8px;

  Box-shadow: 0 2px 5px rgba(0,0,0,0.1);

  Padding: 1rem;

  Text-align: center;

  Transition: transform 0.2s;

}

.product-card:hover {

  Transform: scale(1.03);

}

.product-card img {

  Width: 100%;

  Height: 150px;

  Object-fit: cover;

  Border-radius: 8px;

}

.product-card h3 {
```

```html
      Font-size: 1.1rem;

      Margin: 0.5rem 0;

    }

    .price {

      Color: #2a6592;

      Font-weight: bold;

    }

  </style>

</head>

<body>


  <header>

    <h1>🛍️ Product Catalog with Filters</h1>

  </header>


  <div class="filters">

    <input type="text" id="searchBox" placeholder="Search products…">

    <select id="categoryFilter">

      <option value="all">All Categories</option>

      <option value="electronics">Electronics</option>

      <option value="fashion">Fashion</option>

      <option value="home">Home</option>

    </select>

    <input type="number" id="minPrice" placeholder="Min Price">

    <input type="number" id="maxPrice" placeholder="Max Price">

  </div>


  <div id="productList"></div>
```

```html
<script>

  Const products = [

    { id: 1, name: "Smartphone", category: "electronics", price: 25000, image:
https://via.placeholder.com/200x150?text=Smartphone },

    { id: 2, name: "Laptop", category: "electronics", price: 55000, image:
https://via.placeholder.com/200x150?text=Laptop },

    { id: 3, name: "Headphones", category: "electronics", price: 2000, image:
https://via.placeholder.com/200x150?text=Headphones },

    { id: 4, name: "T-Shirt", category: "fashion", price: 800, image:
https://via.placeholder.com/200x150?text=T-Shirt },

    { id: 5, name: "Shoes", category: "fashion", price: 2500, image:
https://via.placeholder.com/200x150?text=Shoes },

    { id: 6, name: "Wrist Watch", category: "fashion", price: 1500, image:
https://via.placeholder.com/200x150?text=Wrist+Watch },

    { id: 7, name: "Sofa", category: "home", price: 30000, image:
https://via.placeholder.com/200x150?text=Sofa },

    { id: 8, name: "Lamp", category: "home", price: 1200, image:
https://via.placeholder.com/200x150?text=Lamp },

    { id: 9, name: "Mixer Grinder", category: "home", price: 4000, image:
https://via.placeholder.com/200x150?text=Mixer+Grinder }

  ];


  Const productList = document.getElementById("productList");

  Const searchBox = document.getElementById("searchBox");

  Const categoryFilter = document.getElementById("categoryFilter");

  Const minPrice = document.getElementById("minPrice");

  Const maxPrice = document.getElementById("maxPrice");


  Function renderProducts(filteredProducts) {

   productList.innerHTML = "";

   if (filteredProducts.length === 0) {

     productList.innerHTML = "<p style='text-align:center;width:100%;'>No products found.</p>";
```

```javascript
      return;
    }

    filteredProducts.forEach(p => {
      const card = document.createElement("div");

      card.className = "product-card";

      card.innerHTML = `
        <img src="${p.image}" alt="${p.name}">

        <h3>${p.name}</h3>

        <p class="price">₹${p.price}</p>

        <p>${p.category.charAt(0).toUpperCase() + p.category.slice(1)}</p>
      `;

      productList.appendChild(card);
    });
}


Function filterProducts() {
  Const searchTerm = searchBox.value.toLowerCase();

  Const selectedCategory = categoryFilter.value;

  Const min = parseInt(minPrice.value) || 0;

  Const max = parseInt(maxPrice.value) || Infinity;


  Const filtered = products.filter(p => {
    Return (
      p.name.toLowerCase().includes(searchTerm) &&

      (selectedCategory === "all" || p.category === selectedCategory) &&

      p.price >= min &&

      p.price <= max
    );
  });
```

```
    renderProducts(filtered);

  }


  searchBox.addEventListener("input", filterProducts);

  categoryFilter.addEventListener("change", filterProducts);

  minPrice.addEventListener("input", filterProducts);

  maxPrice.addEventListener("input", filterProducts);


  renderProducts(products);
 </script>


</body>
</html>
```