

Q.1 Write a JavaScript program to:

- a) filter employees according to department = IT
- b) filter employees who earn a salary < 65000

ANS:

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Employee Filter</title>

<script>

    // Sample employee data

    const employees = [

        { name: 'John', department: 'IT', salary: 75000 },

        { name: 'Alice', department: 'HR', salary: 60000 },

        { name: 'Bob', department: 'IT', salary: 60000 },

        { name: 'Jane', department: 'Marketing', salary: 70000 },

        { name: 'Doe', department: 'IT', salary: 80000 },

    ];


    // Function to filter employees by department

    function filterByDepartment() {

        const department = document.getElementById('department').value;

        const filteredEmployees = employees.filter(employee => employee.department ===

department);

        displayResults(filteredEmployees);

    }


    // Function to filter employees by salary

    function filterBySalary() {

        const maxSalary = parseFloat(document.getElementById('maxSalary').value);

        const filteredEmployees = employees.filter(employee => employee.salary < maxSalary);
```

```

    displayResults(filteredEmployees);
}

// Function to display filtered results
function displayResults(filteredEmployees) {
    const resultDiv = document.getElementById('result');
    resultDiv.innerHTML = '<h3>Filtered Employees</h3><ul>';
    filteredEmployees.forEach(employee => {
        resultDiv.innerHTML += `<li>${employee.name} - ${employee.department} -
${employee.salary}</li>`;
    });
    resultDiv.innerHTML += '</ul>';
}
</script>
</head>
<body>
    <h2>Employee Filter</h2>
    <div>
        <label for="department">Filter by Department:</label>
        <select id="department">
            <option value="IT">IT</option>
            <option value="HR">HR</option>
            <option value="Marketing">Marketing</option>
        </select>
        <button onclick="filterByDepartment()">Filter</button>
    </div>
    <div>
        <label for="maxSalary">Filter by Max Salary:</label>
        <input type="number" id="maxSalary">
        <button onclick="filterBySalary()">Filter</button>
    </div>

```

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

```
</body>
```

```
</html>
```

OUTPUT

Employee Filter

Filter by Department:
Filter by Max Salary:

Filtered Employees

- John - IT - \$75000
- Bob - IT - \$60000
- Doe - IT - \$80000

Employee Filter

Filter by Department:
Filter by Max Salary:

Filtered Employees

- Alice - HR - \$60000

Employee Filter

Filter by Department:
Filter by Max Salary:

Filtered Employees

- Jane - Marketing - \$70000

Q.2 Write a JavaScript program to filter the hospitals according to:

- a) Number of Beds > 200
- b) Availability of Beds = Yes
- c) Location = Pune

ANS:

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Hospital Filter</title>

<script>

    // Sample hospital data

    const hospitals = [

        { name: 'Hospital A', beds: 150, availableBeds: 'Yes', location: 'Pune' },

        { name: 'Hospital B', beds: 250, availableBeds: 'Yes', location: 'Mumbai' },

        { name: 'Hospital C', beds: 180, availableBeds: 'No', location: 'Pune' },

        { name: 'Hospital D', beds: 300, availableBeds: 'Yes', location: 'Pune' },

        { name: 'Hospital E', beds: 220, availableBeds: 'Yes', location: 'Pune' }

    ];


    // Function to filter hospitals

    function filterHospitals() {

        const filteredHospitals = hospitals.filter(hospital =>

            hospital.beds > 200 &&

            hospital.availableBeds === 'Yes' &&

            hospital.location === 'Pune'

        );

        displayResults(filteredHospitals);

    }


    // Function to display filtered results
```

```
function displayResults(filteredHospitals) {  
  const resultDiv = document.getElementById('result');  
  resultDiv.innerHTML = '<h3>Filtered Hospitals</h3><ul>';  
  filteredHospitals.forEach(hospital => {  
    resultDiv.innerHTML += `<li>${hospital.name} - Beds: ${hospital.beds} - Available Beds:  
${hospital.availableBeds}</li>`;  
  });  
  resultDiv.innerHTML += '</ul>';  
}  
</script>  
</head>  
<body>  
  <h2>Hospital Filter</h2>  
  <button onclick="filterHospitals()">Filter Hospitals</button>  
  <div id="result"></div>  
</body>  
</html>
```

OUTPUT:

Hospital Filter

Filter Hospitals

Filtered Hospitals

- Hospital D - Beds: 300 - Available Beds: Yes
- Hospital E - Beds: 220 - Available Beds: Yes