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1. Create a webpage to call external js file to make the changes with text elements of your webpage during page load event.

Program:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>New Webpage</title>
  <script src="External2.js" defer></script>
</head>
<body>
  <h1 id="main-heading">Welcome to My Webpage</h1>
  <p id="intro-text">This is a sample webpage where text will be changed
using JavaScript.</p>
</body>
</html>
document.addEventListener("DOMContentLoaded", function() {
  // Code to run after the page content has loaded
  const mainHeading = document.getElementById("main-heading");
  mainHeading.textContent = "Hello, JavaScript!";

  const introText = document.getElementById("intro-text");
  introText.textContent = "Text changed dynamically using JavaScript.";
});
```

Output:



2. with the above example when you place cursor in the h1 elements, it has to show description about js advantages.

Program:

```
<!DOCTYPE html>
<html>
<head>
  <title>JavaScript Advantages</title>
  <style>
    body {
      font-family: Arial, sans-serif;
    }
    h1 {
      font-family: 'Times New Roman', Times, serif;
    }
    h3 {
      cursor: pointer;
      color: blue;
    }
    #description {
      margin-top: 20px;
      border-style: double;
      color: crimson;
      font-family: 'Courier New', Courier, monospace;
    }
  </style>
</head>
<body>
  <h1>Javascript</h1>
  <h3 id="advantage1">1: JavaScript is Interactivity.</h3>
  <h3 id="advantage2">2: Versatility.</h3>
  <h3 id="advantage3">3:JavaScript is a Rich Ecosystem.</h3>

  <div id="description"></div>

  <script>
    const descriptions = {

      advantage1: "JavaScript enables interactive web pages by allowing
dynamic changes to content without requiring a page refresh.",
      advantage2: "JavaScript can be used for a variety of tasks beyond
web development, including server-side scripting and building desktop
applications.",
      advantage3: "JavaScript has a vast ecosystem of libraries,
frameworks, and tools that make development faster and more efficient."
```

```

};

const descriptionDiv = document.getElementById('description');

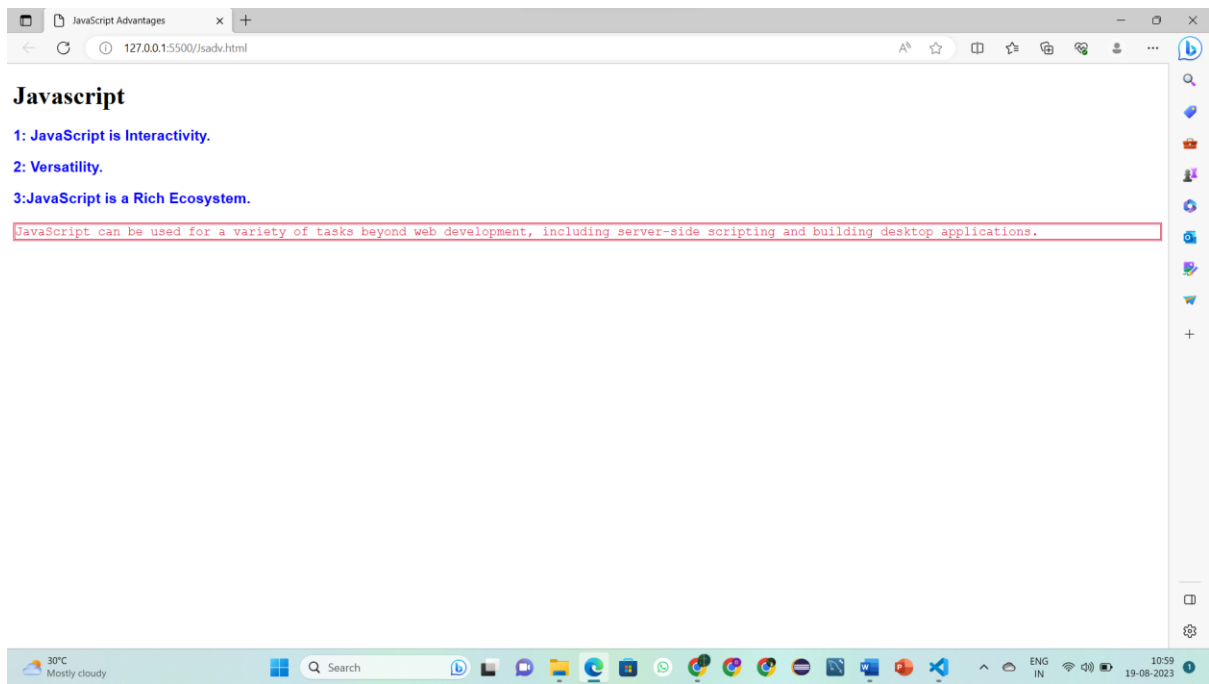
function showDescription(advantageId) {
    descriptionDiv.textContent = descriptions[advantageId];
}

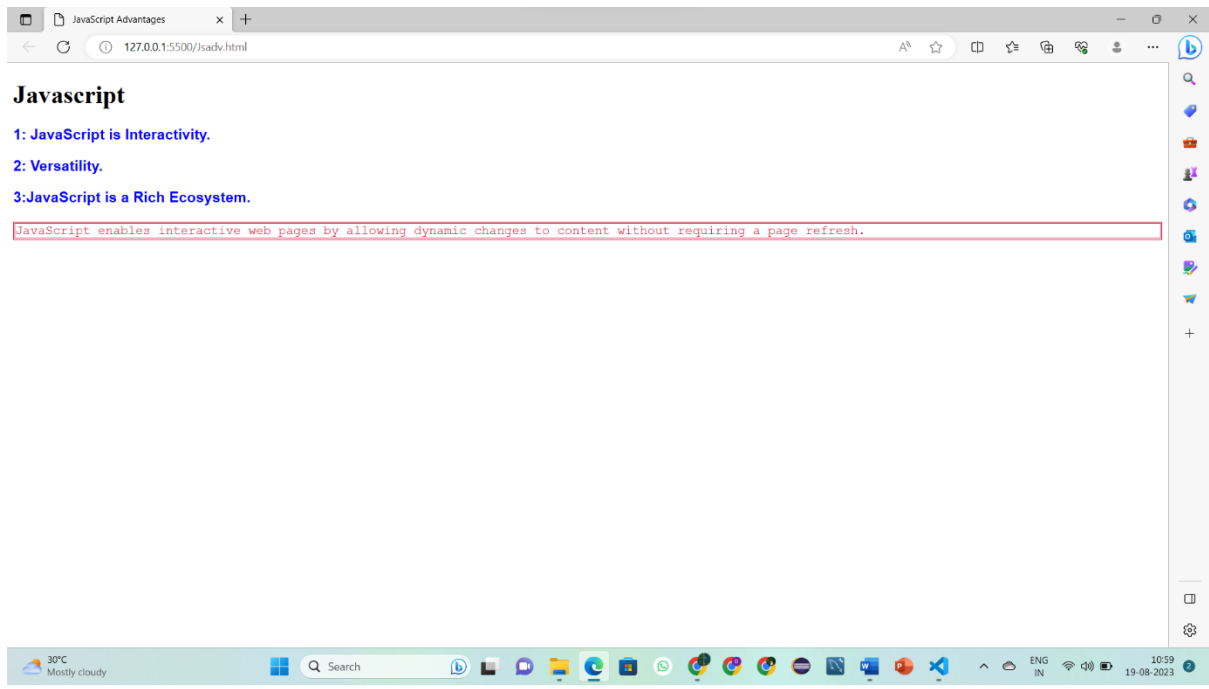
function clearDescription() {
    descriptionDiv.textContent = '';
}

const h3Elements = document.querySelectorAll('h3');
h3Elements.forEach((h3) => {
    h3.addEventListener('mouseenter', () => {
        showDescription(h3.id);
    });
    h3.addEventListener('mouseleave', () => {
        clearDescription();
    });
});
</script>
</body>
</html>

```

Output:





3. Create a employee class with idno, name, job, salary. create an object to initialize the data member values. and display the same using form controls.

Program:

```
<!DOCTYPE html>
<html>
<head>
  <title>Employee Details</title>
</head>
<body>
  <h2>Employee Details</h2>
  <p>ID: <span id="idno"></span></p>
  <p>Name: <span id="name"></span></p>
  <p>Job: <span id="job"></span></p>
  <p>Salary: <span id="salary"></span></p>

  <h2>Set Employee Data</h2>
  <form id="employeeForm">
    <label for="idInput">ID: </label>
    <input type="text" id="idInput"><br>
    <br>
    <label for="nameInput">Name: </label>
    <input type="text" id="nameInput"><br>
    <br>
    <label for="jobInput">Job: </label>
```

```

        <input type="text" id="jobInput"><br>
        <br>
        <label for="salaryInput">Salary: </label>
        <input type="text" id="salaryInput"><br>
        <br><br>
        <button type="button" id="submitButton">Submit</button>
    </form>

    <script src="Employee.js"></script>
    <script>
        // Add event listener to the submit button
        document.getElementById('submitButton').addEventListener('click',
function() {
            const idno = document.getElementById('idInput').value;
            const name = document.getElementById('nameInput').value;
            const job = document.getElementById('jobInput').value;
            const salary = document.getElementById('salaryInput').value;

            const newEmployee = new Employee(idno, name, job, salary);
            displayEmployee(newEmployee);
        });
    </script>
</body>
</html>

// Define the Employee class
class Employee {
    constructor(idno, name, job, salary) {
        this.idno = idno;
        this.name = name;
        this.job = job;
        this.salary = salary;
    }
}

// Function to display employee data
function displayEmployee(employee) {
    document.getElementById('idno').textContent = employee.idno;
    document.getElementById('name').textContent = employee.name;
    document.getElementById('job').textContent = employee.job;
    document.getElementById('salary').textContent = employee.salary;
}

```

Output:



The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5500/Employee.html'. The page title is 'Employee Details'. The form contains the following elements:

- Employee Details** section with labels for ID, Name, Job, and Salary.
- Set Employee Data** section with input fields for ID, Name, Job, and Salary.
- A **Submit** button.

4. Create a webpage as homepage to display about your company name, logo and menu items as services provided by the company, login button to login to your website.

Program:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Company Website</title>
  <link rel="stylesheet" href="Webpage.css">
</head>
<body>
  <header>
    <div class="logo">
      
    </div>
    <nav>
      <ul>
        <li><a href="#services">Services</a></li>
        <li><a href="#login">Login</a></li>
        <li><a href="#About">About</a></li>
        <li><a href="#Contact Us">Contact Us</a></li>
      </ul>
    </nav>
  </header>
```

```

<section id="about">
  <h1>Welcome to DXC Company</h1>
  <p>We are dedicated to providing top-notch services to our
clients.</p>
</section>
<section id="services">
  <h2>Our Services</h2>
  <ul>
    <li>Service 1</li>
    <li>Service 2</li>
    <li>Service 3</li>
  </ul>
</section>
<section id="login">
  <button class="login-button">Login</button>
</section>
<footer>
  <p>&copy; 2023 DXC Technology. All rights reserved.</p>
</footer>
</body>
</html>

```

Output:

