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| **Session** | 2025-2026 (ODD) | **Course Name** | Web Technology Lab |
| **Semester** | 3 | **Course Code** | 23CT1301 |
| **Roll No** | 75 | **Name of Student** | Shrived Rathod |

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| **Practical**  **Number** | **5[B]** |
| **Course Outcome** | 1. Understand various internet technologies. 2. Design the web pages using HTML and CSS. 3. Implement the XML technology to store the data. 4. Develop the interactive web pages using JavaScript. |
| **Aim** | [B] Create XML for student information and access second student’s data using DOM. |
| **Problem**  **Definition** | To create an XML file for employees and display the second employee’s data using JavaScript DOM. |
| **Theory** | DOM, or Document Object Model, is a way to access and change data from XML or HTML using JavaScript. When we write an XML file with employee records, JavaScript can read that file and display selected information. The DOM represents XML tags as objects, so we can choose a specific tag like the second employee’s details and show them on a web page. This method makes XML data more useful because information is not only stored but can also be displayed to users. With DOM, we can manage employee details such as ID, name, department, designation, email, and salary. |
| **Procedure And**  **Execution** | 1. Write an XML file with multiple employee records.  2. Create an HTML file and load the XML using JavaScript.  3. Access the list of employees using DOM functions.  4. Select the second employee record from the list.  5. Display that employee’s details on the web page. |

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|  | **XML + DOM:-**  **1.Data file (employee.xml)**  <?xml version="1.0" encoding="UTF-8"?>  <employees>  <employee>  <id>301</id>  <name>Arjun Rao</name>  <department>IT</department>  <designation>Developer</designation>  <email>arjun.rao@gmail.com</email>  <salary>50000</salary>  </employee>  <employee>  <id>302</id>  <name>Pooja Shah</name>  <department>HR</department>  <designation>HR Manager</designation>  <email>pooja.shah@gmail.com</email>  <salary>62000</salary>  </employee>  <employee>  <id>303</id>  <name>Mohit Gupta</name>  <department>Finance</department>  <designation>Accountant</designation>  <email>mohit.gupta@gmail.com</email>  <salary>47000</salary>  </employee>  </employees>  **2.HTML + JS (index.html)**  <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <title>Employee (Second Record)</title>  <style>  body { font-family: Arial, sans-serif; background: #f7f7f7; margin: 20px; }  h1 { text-align: center; color: #222; }  #out { background: #fff; border: 1px solid #ccc; padding: 12px; max-width: 480px; margin: 12px auto; }  p { margin: 6px 0; }  </style>  </head>  <body>  <h1>Second Employee (via DOM)</h1>  <div id="out"></div>  <script>  // Load XML (simple sync XHR for your syllabus level)  var xhr = new XMLHttpRequest();  xhr.open("GET", "employee.xml", false); // same folder  xhr.send();  var xml = xhr.responseXML;  var list = xml.getElementsByTagName("employee");  if (list && list.length >= 2) {  var e = list[1]; // second employee (index 1)  var id = e.getElementsByTagName("id")[0].textContent;  var name = e.getElementsByTagName("name")[0].textContent;  var dept = e.getElementsByTagName("department")[0].textContent;  var des = e.getElementsByTagName("designation")[0].textContent;  var mail = e.getElementsByTagName("email")[0].textContent;  var sal = e.getElementsByTagName("salary")[0].textContent;  document.getElementById("out").innerHTML =  "<p><b>ID:</b> " + id + "</p>" +  "<p><b>Name:</b> " + name + "</p>" +  "<p><b>Department:</b> " + dept + "</p>" +  "<p><b>Designation:</b> " + des + "</p>" +  "<p><b>Email:</b> " + mail + "</p>" +  "<p><b>Salary:</b> " + sal + "</p>";  } else {  document.getElementById("out").textContent = "Less than 2 employees in XML.";  }  </script>  </body>  </html> |

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|  | **Output:** |
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| **Output Analysis** | When the HTML file runs, the details of the second employee (like ID, Name, Department, Designation, Email, Salary) appear clearly on the screen. |
| **Link of**  **Student**  **Github**  **Profile** | https://github.com/ShrivedRathod/WT\_Lab.git |
| **Conclusion** | The second employee’s record was successfully accessed and displayed from XML using DOM and JavaScript. |
| **Plag Report** | 3% |
| **Date** | 06 September 2025 |