



**Department of Computer Technology**

**Vision of the Department**

*To be a well-known centre for pursuing computer education through innovative pedagogy, value-based education and industry collaboration.*

**Mission of the Department**

*To establish learning ambience for ushering in computer engineering professionals in core and multidisciplinary area by developing Problem-solving skills through emerging technologies.*

**Session 2025-2026**

<b>Vision:</b> Dream of where you want.	<b>Mission:</b> Means to achieve Vision
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**Program Educational Objectives of the program (PEO):** (broad statements that describe the professional and career accomplishments)

PEO1	<b>Preparation</b>	<b>P: Preparation</b>	<b>Pep-CL abbreviation pronounce as Pep-si-IL easy to recall</b>
PEO2	<b>Core Competence</b>	<b>E: Environment (Learning Environment)</b>	
PEO3	<b>Breadth</b>	<b>P: Professionalism</b>	
PEO4	<b>Professionalism</b>	<b>C: Core Competence</b>	
PEO5	<b>Learning Environment</b>	<b>L: Breadth (Learning in diverse areas)</b>	

**Program Outcomes (PO):** (statements that describe what a student should be able to do and know by the end of a program)

**Keywords of POs:**

Engineering knowledge, Problem analysis, Design/development of solutions, Conduct Investigations of Complex Problems, Engineering Tool Usage, The Engineer and The World, Ethics, Individual and Collaborative Team work, Communication, Project Management and Finance, Life-Long Learning

**PSO Keywords:** Cutting edge technologies, Research

“I am an engineer, and I know how to apply engineering knowledge to investigate, analyse and design solutions to complex problems using tools for entire world following all ethics in a collaborative way with proper management skills throughout my life.” to contribute to the development of cutting-edge technologies and Research.

**Integrity:** I will adhere to the Laboratory Code of Conduct and ethics in its entirety.

**Name and Signature of Student and Date**

(Signature and Date in Handwritten)



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Session	2025-26 (ODD)	Course Name	Web Technology Lab
Semester	3	Course Code	23CT1301
Roll No	B-173	Name of Student	Vedant H. Kapgate

Practical Number	4
Course Outcome	<ol style="list-style-type: none"><li>1. Understand various internet technologies.</li><li>2. Design the web pages using HTML and CSS.</li><li>3. Implement the XML technology to store the data.</li><li>4. Develop the interactive web pages using JavaScript.</li></ol>
Aim	Write a program in JSON to store information related to programming books along with edition and author name
Problem Definition	Write a program in JSON to store information related to programming books along with edition and author name, isbn number, publish date, publishing house of 5 books
Theory (100 words)	This program shows how to use JSON objects in JavaScript to display information on a webpage. The page has a simple design: the background is aqua and the main heading is brown. In the JavaScript code, five books are written as JSON objects, each having details like title, author, edition, ISBN, publish date, and publisher. Using document.write(), these details are shown on the webpage under different headings. This makes it easy to see how JSON helps in storing data in an organized way and showing it on a webpage.
Procedure and Execution (100 Words)	<b>Step for Implementation:</b> <ol style="list-style-type: none"><li>1. Create an HTML file and add basic structure (&lt;!DOCTYPE html&gt;, &lt;html&gt;, &lt;head&gt;, &lt;body&gt;).</li><li>2. Inside &lt;script&gt;, define JSON objects with book details.</li><li>3. Use document.write() to display object values on the web page.</li><li>4. Add &lt;style&gt; for background color, font, and heading formatting.</li><li>5. Save the file with .html extension (e.g., books.html).</li><li>6. Open the file in a web browser to view the output.</li></ol>



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**Code:**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>JSON</title>
  <script lang="javascript">
    var obj1={"book_name":"Let Us C","author":"Yashavant
Kanetkar","edition":"20th","ISBN":"9789355513364","Publish_Date":"2023","Publis
hing_House":"BPB Publications"};
    document.write("<h1>JSON with JavaScript example</h1>");
    document.write("<br>");
    document.write("<h3>book_name = " + obj1.book_name+"</h3>");
    document.write("<h3>author = " + obj1.author+"</h3>");
    document.write("<h3>edition = " + obj1.edition+"</h3>");
    document.write("<h3>ISBN = " + obj1.ISBN+"</h3>");
    document.write("<h3>Publish Date = " + obj1.Publish_Date+"</h3>");
    document.write("<h3>Publishing house = " + obj1.Publishing_House+"</h3>");

    var obj2={"book_name":"Python Crash Course","author":"Eric
Matthes","edition":"3rd Edition","ISBN":"9781718502703","Publish_Date":"May
2023","Publishing_House":"No Starch Press"};
    document.write("<br>");
    document.write("<h3>book_name = " + obj2.book_name+"</h3>");
    document.write("<h3>author = " + obj2.author+"</h3>");
    document.write("<h3>edition = " + obj2.edition+"</h3>");
    document.write("<h3>ISBN = " + obj2.ISBN+"</h3>");
    document.write("<h3>Publish Date = " + obj2.Publish_Date+"</h3>");
    document.write("<h3>Publishing house = " + obj2.Publishing_House+"</h3>");

    var obj3={"book_name":"Java: The Complete Reference","author":"Herbert
Schildt","edition":"13rd
Edition","ISBN":"99781260463415","Publish_Date":"2021","Publishing_House":"Mc
Graw Hill"};
    document.write("<br>");
    document.write("<h3>book_name = " + obj3.book_name+"</h3>");
    document.write("<h3>author = " + obj3.author+"</h3>");
    document.write("<h3>edition = " + obj3.edition+"</h3>");
    document.write("<h3>ISBN = " + obj3.ISBN+"</h3>");
    document.write("<h3>Publish Date = " + obj3.Publish_Date+"</h3>");
    document.write("<h3>Publishing house = " + obj3.Publishing_House+"</h3>");
```



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```
var obj4={"book_name":"The C Programming Language","author":"Dennis M. Ritchie","edition":"2nd Edition","ISBN":"9780131103627","Publish_Date":"April 1998","Publishing_House":"Prentice Hall"};
document.write("<br>");
document.write("<h3>book_name = " + obj4.book_name+"</h3>");
document.write("<h3>author = " + obj4.author+"</h3>");
document.write("<h3>edition = " + obj4.edition+"</h3>");
document.write("<h3>ISBN = " + obj4.ISBN+"</h3>");
document.write("<h3>Publish Date = " + obj4.Publish_Date+"</h3>");
document.write("<h3>Publishing house = " + obj4.Publishing_House+"</h3>");

var obj5={"book_name":"Head First Java","author":"Kathy Sierra, Bert Bates","edition":"3rd Edition","ISBN":"9781491910771","Publish_Date":"2022","Publishing_House":"O'Reilly Media"};
document.write("<br>");
document.write("<h3>book_name = " + obj5.book_name+"</h3>");
document.write("<h3>author = " + obj5.author+"</h3>");
document.write("<h3>edition = " + obj5.edition+"</h3>");
document.write("<h3>ISBN = " + obj5.ISBN+"</h3>");
document.write("<h3>Publish Date = " + obj5.Publish_Date+"</h3>");
document.write("<h3>Publishing house = " + obj5.Publishing_House+"</h3>");

</script>
<style>
body {
font-family:'Times New Roman', Times, serif;
background-color: #d7d7e9;
margin: 0;
padding: 20px;
}
h1 {
color: burlywood;
text-align: center;
margin-bottom: 40px;
}
h3 {
color: #34495e;
margin: 5px ;
}
</style>
</head>
<body>
</body>
</html>
```




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	<p><b>Output:</b></p> 
Output Analysis	<p>When the program is executed, the web page displays a heading “JSON with JavaScript example” in brown color on an aqua background. Below the heading, details of five books are shown one after another. For each book, the title appears as a larger subheading, followed by its edition, author, ISBN, publish date, and publisher in smaller subheadings. A horizontal line (&lt;hr&gt;) separates the information of each book, making the output clear and organized.</p>
Link of student Github profile where lab assignment has been uploaded	<p><b><a href="https://github.com/vedant0517/Web-Technology-SEC-B-173">https://github.com/vedant0517/Web-Technology-SEC-B-173</a></b></p>



Nagar Yuwak Shikshan Sanstha's

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Conclusion	This program shows how JSON can be used in JavaScript to store and display structured data. Book details are organized as objects and displayed dynamically on a styled web page, proving JSON is an effective way to manage and present information.
Plag Report (Similarity index < 12%)	<div><div><div>Result</div><div>Word Statistics</div></div><div><p>This program shows how to use JSON objects in JavaScript to display information on a webpage. The page has a simple design: the background is aqua and the main heading is brown. In the JavaScript code, five books are written as JSON objects, each having details like title, author, edition, ISBN, publish date, and publisher. Using document.write(), these details are shown on the webpage under different headings. This makes it easy to see how JSON helps in storing data in an organized way and showing it on a webpage. When the program is executed, the web page displays a heading "JSON with JavaScript example" in brown color on an aqua background. Below the heading, details of five books are shown one after another. For each book, the title appears as a larger subheading, followed by its edition, author, ISBN, publish date, and publisher in smaller subheadings. A horizontal line (</p><p>) separates the information of each book, making the output clear and organized.</p><p>This program shows how JSON can be used in JavaScript to store and display structured data. Book details are organized as objects and displayed dynamically on a styled web page, proving JSON is an effective way to manage and present information.</p></div></div> <div><div><div>0% Plagiarism</div><div><div>Exact Match 0%</div><div>Partial Match 0%</div></div><div>100% Unique</div></div><div><div>Download Report</div></div><div><div></div><div><b>Congratulation!</b> No Plagiarism Found</div></div></div>
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