

Logical problems	
1)	<p>Write a program that reads a number from the user and finds the result of multiplying the first digit by itself as many times as the last digit of the number.</p> <p>Example:-</p> <p>Input = 247 Output = <math>2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 128</math></p>
2)	<p>Write a program that reads an integer number from the user and prints the number in words. Each digit of the number should be converted into its corresponding word.</p> <p>Example:-</p> <p>Input = 504 Output = Five Zero Four</p>
3)	<p>Write a program that reads an array of integers and finds the subarray whose sum is maximum. The program should display the subarray and the maximum sum.</p> <p>Example:-</p> <p>Input = [-2, 1, -3, 4, -1, 2, 1, -5, 4] Output = <math>4 + (-1) + 2 + 1 = 6</math></p>
4)	<p>Write a program that performs Binary Search using a loop and recursion. The program should return the index of the searched element if found, otherwise return -1.</p> <p>Example:-</p> <p>Input: Array = [10, 20, 30, 40, 50] Search = 40</p> <p>Output: 40 found at index 3</p>
5)	<p>Write a program that reads a number n from the user and calculates the sum of the series:</p> <p><math>1 + (1+2) + (1+2+3) + \dots + (1+2+3+\dots+n)</math></p> <p>Each term is the sum of numbers from 1 to k, where k goes from 1 to n.</p> <p>The program should display the final total.</p> <p>Example:-</p> <p>Input = 4</p>

	<p><b>Terms:</b></p> <p>1 (1 + 2) (1 + 2 + 3) (1 + 2 + 3 + 4)</p> <p><b>Output = 1 + 3 + 6 + 10 = 20</b></p>
6)	
	<p>Write a program that reads a small sentence (string) from the user and counts the number of vowels in it. Consider vowels as: a, e, i, o, u (both uppercase and lowercase if needed).</p> <p>The program should display the total count of vowels.</p>
	<p><b>Example:-</b></p> <p>Input = "hello world" Vowels = e, o, o</p> <p><b>Output = 3</b></p>
7)	
	<p>Write a program that reads two 2D matrices from the user and performs matrix multiplication. The program should display the resultant matrix after multiplication</p>
	<p><b>Example:-</b></p> <p><b>Input:</b> Matrix A (2×2)</p> <p>1 2 3 4</p> <p>Matrix B (2×2)</p> <p>5 6 7 8</p> <p><b>Output:</b></p> <p><b>Resultant Matrix =</b></p> <p>19 22 43 50</p>
8)	

	<pre> *   *   *   *   *   *   *   *               *     *           *       *       *         *   *           *   *             *           *   *         *       *       *           *     *               *   *                   * *                       *</pre>
9)	<p>Given the number of rows and columns, print the corresponding swastika pattern using loops. Note: The number of rows and columns should be the same and an odd number. This will generate a perfect swastika pattern</p> <pre> *           * * * * * *           * *           * *           * * * * * * * * * *       *           *       *           *       *           *       *           * * * * * * * * * *</pre>
10)	<p>Implement a following pattern</p> <pre> 1 1 2 1 1 * 3 * 1 1 * * 4 * * 1 1 * * * 5 * * * 1 1 * * * * 6 * * * * 1</pre>
	<p style="text-align: center;"><b>Javascript problems</b></p>
11)	<p>Write a program to check whether a given string is a palindrome or not in javascript. A string is called a palindrome if it reads the same forward and backward (ignoring case and spaces if needed).</p> <p>Example:-</p> <p>Input = "level" Reverse = "level"</p> <p>Output = Palindrome</p>
12)	<p>Write a JavaScript program that reads a sentence from the user and capitalizes the first letter of each word in the sentence.</p>



	The program should display the updated sentence where every word begins with an uppercase letter.							
	Example:-  Input = "hello world from js" Output = Hello World From Js							
13)	Write a JavaScript program to reverse an array. The program should read an array of numbers (or strings) and display the array in reverse order.							
	Example:-  Input = [10, 20, 30, 40, 50] Output = [50, 40, 30, 20, 10]							
14)	Write a JavaScript program to reverse a string. The program should read a string from the user and display the string in reverse order.							
	Example:-  Input = "hello" Output = "olleh"							
	HTML & CSS Problems							
15)								
	<table><tr><td>Batatas</td><td rowspan="2">Couves</td><td>Alhos</td><td>Cebolas</td></tr><tr><td>Nabos</td><td colspan="2">Alface</td></tr></table>	Batatas	Couves	Alhos	Cebolas	Nabos	Alface	
Batatas	Couves	Alhos		Cebolas				
Nabos		Alface						
16)								



## Student Registration

FullName

Email

Mobile No

Address

Nationality

Date Of Birth

Gender ☐ Male ☐ Female

Highest Degree

CPI

University

Passing Year

## COVID-19 Vaccine Registration Form

First Name

Last Name

Aadhar Number

Vaccine Name

Vaccination Center Name

Date of Dose

Dose Number

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19)	
	<p><b>1) List tags</b></p> <p><b>Concept of WWW</b></p> <ul style="list-style-type: none"> <li>It stands for World Wide Web.</li> <li>It is basically a system of internet servers that support specially formatted documents.</li> <li>It is a collection of text pages, videos, digital photographs and animations we can access over the internet.</li> <li>User access the World Wide Web facilities via client called a web browser.</li> </ul> <p><b>HTTP Protocol</b></p> <ol style="list-style-type: none"> <li>HTTP stands for Hypertext Transfer Protocol.</li> <li>HTTP is based on the client-server architecture model and a stateless request/response protocol</li> <li>404 File Not Found is a common HTTP status code.</li> </ol> <p><b>BCA Sem-2 Subject List</b></p> <p>HTML HyperText Markup Language</p> <p>CSS Cascading Style Sheet</p> <p>DBMS Database Management System</p> <p><b>2) Audio tag</b></p> <p><b>HTML Audio Element</b></p> <div data-bbox="226 1863 1378 2011">  </div>