

Logical problems	
1)	
	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.
	Example:- Input = 247 Output = $2*2*2*2*2*2 = 128$
2)	
	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.
	Example:- Input = 504 Output = Five Zero Four
3)	
	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.
	Example:- Input = [-2, 1, -3, 4, -1, 2, 1, -5, 4] Output = $4 + (-1) + 2 + 1 = 6$
4)	
	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.
	Example:- Input: Array = [10, 20, 30, 40, 50] Search = 40 Output: 40 found at index 3
5)	
	Write a program that reads a number n from the user and calculates the sum of the series: $1 + (1+2) + (1+2+3) + \dots + (1+2+3+\dots+n)$ Each term is the sum of numbers from 1 to k, where k goes from 1 to n. The program should display the final total.
	Example:- Input = 4

	<p>Terms:</p> <p>1 $(1 + 2)$ $(1 + 2 + 3)$ $(1 + 2 + 3 + 4)$</p> <p>Output = $1 + 3 + 6 + 10 = 20$</p>
6)	<p>Write a program that reads a small sentence (string) from the user and counts the number of vowels in it.</p> <p>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>Example:-</p> <p>Input = "hello world" Vowels = e, o, o</p> <p>Output = 3</p>
7)	<p>Write a program that reads two 2D matrices from the user and performs matrix multiplication.</p> <p>The program should display the resultant matrix after multiplication</p>
	<p>Example:-</p> <p>Input: Matrix A (2x2)</p> <p>1 2 3 4</p> <p>Matrix B (2x2)</p> <p>5 6 7 8</p> <p>Output:</p> <p>Resultant Matrix =</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>Javascript problems</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 border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 10px; text-align: center;"><i>Batatas</i></td> <td style="padding: 10px; text-align: center;"><i>Couves</i></td> <td style="padding: 10px; text-align: center;"><i>Alhos</i></td> <td style="padding: 10px; text-align: center;"><i>Cebolas</i></td> </tr> <tr> <td colspan="4" style="text-align: center; padding: 10px;"><i>Alface</i></td> </tr> <tr> <td style="padding: 10px; text-align: center;"><i>Nabos</i></td> <td colspan="3"></td> </tr> </table>	<i>Batatas</i>	<i>Couves</i>	<i>Alhos</i>	<i>Cebolas</i>	<i>Alface</i>				<i>Nabos</i>			
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16)													

Student Registration

COVID-19 Vaccine Registration Form

FullName

First Name

Email

Last Name

Mobile No

Aadhar Number

Address

Vaccine Name

Nationality

Vaccination Center Name

Date Of Birth

Date of Dose

Gender

Male Female

Dose Number

Highest Degree

[CLICK HERE](#) [CANCEL](#)

CPI

University

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17)



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19)

1) List tags

Concept of WWW

- It stands for World Wide Web.
- It is basically a system of internet servers that support specially formatted documents.
- It is a collection of text pages, videos, digital photographs and animations we can access over the internet.
- User access the World Wide Web facilities via client called a web browser.

HTTP Protocol

- I. HTTP stands for Hypertext Transfer Protocol.
- II. HTTP is based on the client-server architecture model and a stateless request/response protocol
- III. 404 File Not Found is a common HTTP status code.

BCA Sem-2 Subject List

HTML	HyperText Markup Language
CSS	Cascading Style Sheet
DBMS	Database Management System

2) Audio tag

HTML Audio Element

