

## Logical problems

1)	
	<p><b>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.</b></p>
	<p><b>Example:-</b></p> <p><b>Input = 247</b>  <b>Output = <math>2*2*2*2*2*2 = 128</math></b></p>
2)	
	<p><b>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.</b></p>
	<p><b>Example:-</b></p> <p><b>Input = 504</b>  <b>Output = Five Zero Four</b></p>
3)	
	<p><b>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.</b></p>
	<p><b>Example:-</b></p> <p><b>Input = [-2, 1, -3, 4, -1, 2, 1, -5, 4]</b>  <b>Output = <math>4 + (-1) + 2 + 1 = 6</math></b></p>
4)	
	<p><b>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.</b></p>
	<p><b>Example:-</b></p> <p><b>Input:</b>  <b>Array = [10, 20, 30, 40, 50]</b>  <b>Search = 40</b></p> <p><b>Output:</b>  <b>40 found at index 3</b></p>
5)	

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**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**

**Terms:**

**1**

**(1 + 2)**

**(1 + 2 + 3)**

**(1 + 2 + 3 + 4)**

**Output = 1 + 3 + 6 + 10 = 20**

**6)**

**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).**

**The program should display the total count of vowels.**

**Example:-**

**Input = "hello world"**

**Vowels = e, o, o**

**Output = 3**

**7)**

**Write a program that reads two 2D matrices from the user and performs matrix multiplication.**

**The program should display the resultant matrix after multiplication**

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**Example:-**
**Input:**
**Matrix A (2x2)**

1 2

3 4

**Matrix B (2x2)**

5 6

7 8

**Output:**
**Resultant Matrix =**

19 22

43 50

8)

```

* * * * * * *
      *
      *
      *
      *
      *
* * * * * * *

```

9)

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

```

*       * * * * *
*           *
*           *
*           *
*   *   *   *   *   *   *
*           *
*           *
*           *
*   *   *   *   *   *
*           *
*           *
*           *
*   *   *   *   *   *

```

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10)	<b>Implement a following pattern</b> <pre> 1 1 2 1 1 * 3 * 1 1 * * * 4 * * * 1 1 * * * * 5 * * * * 1 1 * * * * * 6 * * * * * 1 </pre>
Ex.10	<b>Implement following pattern in java-script.</b> <pre> * ** ***      *** ****     **** *****    ***** *****    ***** ****     **** ***      *** ** * </pre>
Ex.10-2	<b>Implement following pattern in java-script. (Hallowrectangle)</b> <pre> ***** *      * *      * *      * ***** </pre>
	<b>Javascript problems</b>
11)	<b>Write a program to check whether a given string is a palindrome or not in javascript.</b> <b>A string is called a palindrome if it reads the same forward and backward (ignoring case and spaces if needed).</b>
	<b>Example:-</b> <b>Input = "level"</b> <b>Reverse = "level"</b> <b>Output = Palindrome</b>

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12)	Write a JavaScript program that reads a sentence from the user and capitalizes the first letter of each word in the sentence.
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	The program should display the updated sentence where every word begins with an uppercase letter.								
	<b>Example:-</b>  <b>Input = "hello world from js"</b> <b>Output = Hello World From Js</b>								
13)	<b>Write a JavaScript program to reverse an array.</b> <b>The program should read an array of numbers (or strings) and display the array in reverse order.</b>								
	<b>Example:-</b>  <b>Input = [10, 20, 30, 40, 50]</b> <b>Output = [50, 40, 30, 20, 10]</b>								
14)	<b>Write a JavaScript program to reverse a string.</b> <b>The program should read a string from the user and display the string in reverse order.</b>								
	<b>Example:-</b>  <b>Input = "hello"</b> <b>Output = "olleh"</b>								
	<b>HTML &amp; CSS Problems</b>								
15)									
	<table border="1" style="width: 100%; height: 150px;"> <tr> <td style="width: 25%; padding: 10px; vertical-align: top;"> <i>Batatas</i>   <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <i>Nabos</i> </div> </td> <td style="width: 25%; padding: 10px; vertical-align: top;"> <i>Couves</i> </td> <td style="width: 25%; padding: 10px; vertical-align: top;"> <i>Alhos</i> </td> <td style="width: 25%; padding: 10px; vertical-align: top;"> <i>Cebolas</i> </td> </tr> <tr> <td colspan="4" style="text-align: center; padding: 10px;"> <i>Alface</i> </td> </tr> </table>	<i>Batatas</i>  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <i>Nabos</i> </div>	<i>Couves</i>	<i>Alhos</i>	<i>Cebolas</i>	<i>Alface</i>			
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<i>Alface</i>									

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Faculty: Prof. Chirag K. Sakhrani

## Student Registration

FullName	<input type="text"/>
Email	<input type="text"/>
Mobile No	<input type="text"/>
Address	<input type="text"/>
Nationality	<input type="text"/>
Date Of Birth	<input type="text"/> dd - mm - yyyy <input type="button" value=""/>
Gender	<input type="radio"/> Male <input type="radio"/> Female
Highest Degree	<input type="text"/> Select Degree <input type="button" value=""/>
CPI	<input type="text"/>
University	<input type="text"/>
Passing Year	<input type="text"/> Select Your Passing Year <input type="button" value=""/>
<input type="button" value="Submit"/> <input type="button" value="cancel"/>	

## COVID-19 Vaccine Registration Form

First Name	<input type="text"/>
Last Name	<input type="text"/>
Aadhar Number	<input type="text"/>
Vaccine Name	<input type="text"/> Please Select Vaccine Name <input type="button" value=""/>
Vaccination Center Name	<input type="text"/> Please Select Vaccination Center Name <input type="button" value=""/>
Date of Dose	<input type="text"/> dd - mm - yyyy <input type="button" value=""/>
Dose Number	<input type="text"/>
<input type="button" value="CLICK HERE"/> <input type="button" value="CANCEL"/>	

17)



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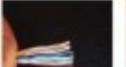
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### Hello, I am Web Developer

I use HTML and CSS to convert webpage designs into beautiful and efficient websites.

Program 1

Program 2

Program 3

Program 4

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



0:00 / 6:04

