

HTML, CSS, JAVA SCRIPT

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Coding World

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What is HTML ?

- HTML stands for “**Hyper Text Markup Language**”.
- It is easy to learn. And it's not a case sensitive.
- HTML is the standard markup language for creating Web pages.
- HTML describes the structure of a Web page.
- HTML elements tell the browser how to display the content.

A simple HTML structure...

```
<HTML>
<HEAD>
<TITLE> Basic HTML structure </TITLE>
</HEAD>
<BODY>
    <h1> Basic HTML structure </h1>
    <p> This is a paragraph tag </p>
</BODY>
</HTML>
```

Some instructions...

<HTML> —————> This is starting tag

</HTML> —————> This is closing tag

The HTML file must be save as –
File name.html / File name.HTML

HTML tag list...

- <HEAD> —————> It defines the head section of an HTML document.
- <TITLE> —————> It defines the title or name of an HTML document.
- <P> —————> It represents a paragraph in an HTML documents.
- —————> It is used to make a text bold.
- <I> —————> It is used to make a text italic.
- <U> —————> It is used to text underline .
- <BODY> —————> It is used to define the body section of an HTML documents.
- <HTML> —————> It represents the root of an HTML document.
-
 —————> It is used for line breake or create new line.
- <sub> —————> It defines a text which displays as a subscript text.
- <sup> —————> It defines a text which is represented as superscript text.
- —————> It defines a text which has been deleted from the document.
- <h1,h2 h6> —————> It defines heading of an HTML document.
- —————> It defines an ordered list of an items.
- —————> It defines an unordered list of an items.
- —————> It is used to insert an image within an HTML document.
- <a> —————> It is termed as an anchor tag and it creates a hyperlink or link.

- `<marquee>` —————> It is used to scrolling text or an image either horizontally or vertically.
- `<table>` —————> It is used to create a table.
- `<th>` —————> It defines the head cell of an HTML table
- `<tr>` —————> It defines the row cells in an HTML table
- `<td>` —————> It is define the cell data in an HTML table
- `<form>` —————> It is used to define an HTML form
- `<option>` —————> It is used to define options or items in a drop-down list
- `<optgroup>` —————> It is used to group the options of a drop-down list
- `<nav>` —————> It is used to create a navigation bar
- etc

HTML tag and attributes...

What is tag ?

- Tag is a HTML instructions and look like.

e.g - `<p> Hello World </p>`

e.g - `<h1> This is a Heading tag </h1>`

What is container tags ?

- Tags that have starting as well as ending part.

e.g - `<title> Title of the web page </title>`

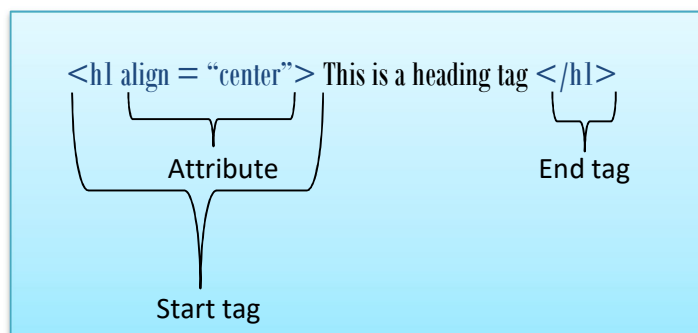
e.g - `<h2> This is second heading tag </h2>`

What is empty tag ?

- Tags that do not have the closing part.

e.g - `<br>`, `<hr>`

Attributes... An attribute is an additional features , attributes are optional.



Basic HTML

Lesson – 1

- Body tag and it's attributes
- Paragraph, Line break, Bold, Italic, Underline,
- Font tag and it's attributes

Text.html

</HEAD>

</body>

</HTML>



- Pre tag
- Small & Big tag
- Sup & Sub tag
- Strong & Strike tag
- Font tag

```

<HTML>
<HEAD>
<TITLE> Lesson - 1 </TITLE>
</HEAD>

<body align="center">
<pre> <hr color="red"> </pre>
<font color="red" size="20px" face="courier"> Bikram Halдар </font>
<pre> <hr color="blue"> </pre>

<small> Computer </small> <br>
<big> Computer </big> <br>
<strong> Computer </strong> <br>
<strike> Computer </strike> <br>

a <sup> 2 </sup> + b <sup> 3 </sup> <br>
H<SUB>2</SUB>>0
</body>

</HTML>

```



Lesson - 3

- Image on background
- Image on screen

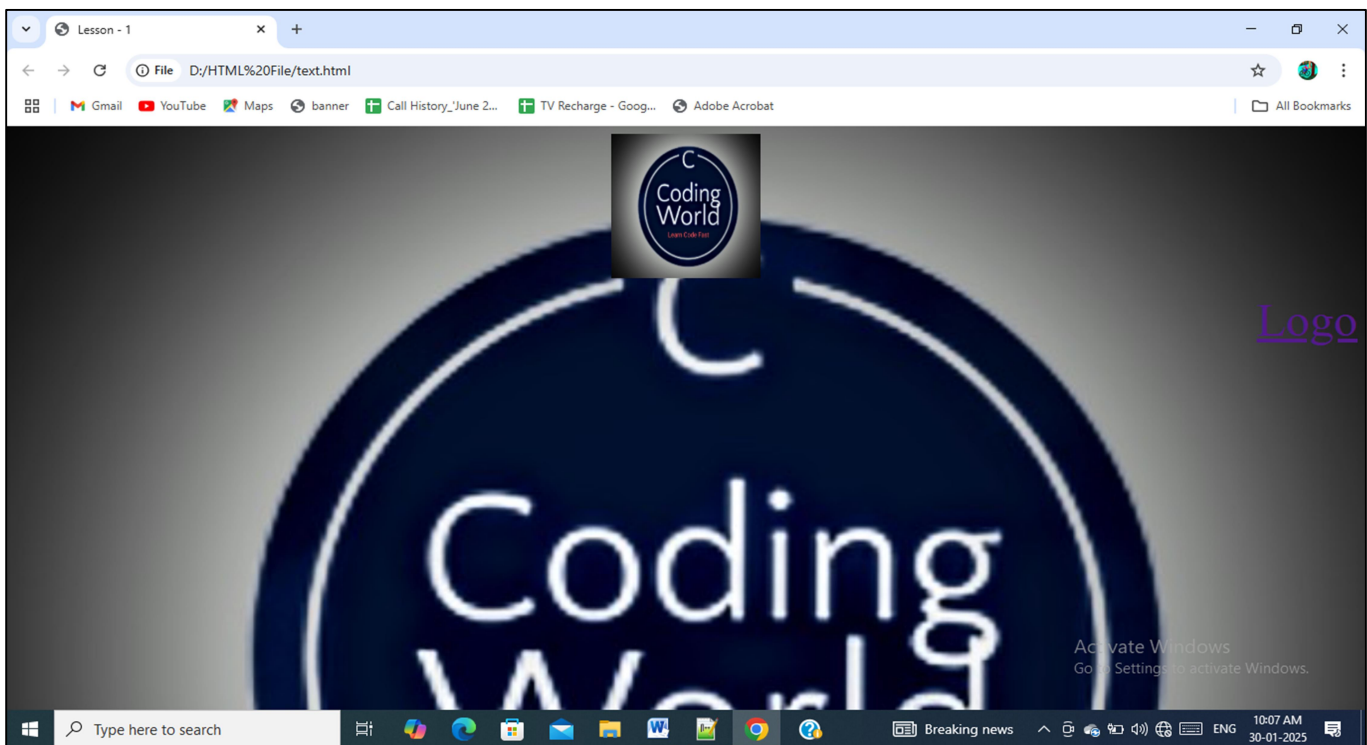
- Image on hyper link

Index.html

```
<HTML>
<HEAD>
<TITLE> Lesson - 1 </TITLE>
</HEAD>

<body background="C:\Users\user\OneDrive\Pictures\L.jpg" style=background-repeat:no-repeat;background-size:100%;
align="right">
<p align="center">  </img>
</p>
<font size="50px"> <a href="C:\Users\user\OneDrive\Pictures\L.jpg"> Logo </a> </font>

</body>
```



Lesson – 4

- Heading tag
- Page align
- Marquee tag

```

<HTML>
<HEAD>
<TITLE> HTML </TITLE>
</HEAD>

<body>

<H1> First heading </H1>
<H2 align="center"> Second heading </H2>
<H3> third heading </H3>
<H4> Fourth heading </H4>
<H5> Fifth heading </H5>
<H6> Sixth heading </H6>

<p align="center"> <font size="8" color="red"> Coding World </font> </p>

<font color="white" size="5px"> <marquee bgcolor="red" direction="left" height="30px"> Coding World
</marquee> </font>
<font color="white"> <marquee bgcolor="yellow" direction="right"> Coding World </marquee> </font>
<font color="white"> <marquee bgcolor="blue" direction="up"> Coding World </marquee> </font>
<font color="white"> <marquee bgcolor="black" direction="down"> Coding World </marquee> </font>

</body>
</HTML>

```



Lesson – 5

- Order list & Unorder list

- Table tag

Index.html

```
<HTML>
<HEAD>
<TITLE> HTML </TITLE>
<style>
td{
  align-items:center;
  color:red;
}
</style>
</HEAD>
<body>
```

Order List


```
<OL> <LI> COMPUTER </LI> <LI> RAM </LI> <LI> ROM </LI> <LI> CPU </LI> </OL>
```

Unorder List


```
<UL> <LI> LANGUAGE </LI> <LI> HTML </LI> <LI> JAVA </LI> <LI> C++ </LI> </UL>
```

```
<table border="5px" bordercolor="red" bgcolor="yellow" cellpadding="5px" cellspacing="2px" height="0px"
width="0px" align="center" >
<TR> <TH> NAME </TH> <TH> ROLL NO.</TH> <TH> COURSE </TH> <TH> MARKS </TH> </TR>
<tr> <td align="center"> Bikram </td> <td> 01 </td> <td> WEB DEVELOPMENT </td> <TD> 84 </TD> </tr>
<tr> <td align="center"> SUMIT </td> <td> 02 </td> <td> WEB DEVELOPMENT </td> <TD> 83 </TD> </tr>
</table>
</body>
</HTML>
```

Order List

1. COMPUTER
2. RAM
3. ROM
4. CPU

Unorder List

- LANGUAGE
- HTML
- JAVA
- C++

NAME	ROLL NO.	COURSE	MARKS
Bikram	01	WEB DEVELOPMENT	84
SUMIT	02	WEB DEVELOPMENT	83

Lesson – 6

- Table divided into two parts
- Rowspan

File.html

```
<HTML>
<HEAD>
<TITLE> HTML </TITLE>
<style>
div{
    display: flex;
}
</style>
</HEAD>
<body>

<div>
<table border="5px" bordercolor="red" bgcolor="yellow" cellpadding="10px" cellspacing="1px" height="0px"
width="0px" align="center">
    <TR> <TH COLSPAN="4"> DETAILS OF COMPUTER STUDENT </TH></TR>
    <TR> <TH colspan="2"> HARDWARE STUDENT </TH> <TH colspan="2"> SOFTWARE STUDENT </TH>
</TR>
    <tr> <th> NAME </th> <TH> ROLL NO.</TH> <th> NAME </th> <TH> ROLL NO.</TH> </tr>
    <TR> <TD> BIKRAM </TD> <TD> 01 </TD> <TD> SUMIT </TD> <TD> 01 </TD> </TR>
    <TR> <TD> SUMIT </TD> <TD> 02 </TD> <TD> SUMAN </TD> <TD> 02 </TD> </TR>
</table> <BR>

<table border="5px" bordercolor="red" bgcolor="yellow" cellpadding="15px" cellspacing="0px" height="0px"
width="0px" align="center">
    <tr> <th COLSPAN="4"> Project Group List </th> </tr>
    <TR> <TH> GROUP </TH> <TH> NAME </TH> <th> Project Name </th> <TH> TIME </TH> </TR>
    <TR> <TD rowspan="2"> A </TD> <TD> Bikram Halder </TD> <td rowspan="2"> E-Commerce website
</td> <TD> 10:00 am - 12:00 pm </TD></TR>
    <tr> <td> Sumit Kumar Ghosh </td> <td> 12:10 pm - 02:10 pm </td> </tr>

    <tr> <td rowspan="3"> B </td> <td> Suman Kalapahar</td> <td rowspan="3"> College Website </td>
<td> 10:00 am - 11:05 am </td></tr>
    <tr> <td> Santa Saw </td> <td> 11:10 am - 12:15 pm </td> </tr>
    <tr> <td> Ranita Samanta </td> <td> 12:20 pm - 01:25 pm </td> </tr>
</table>
</div></body></HTML>
```

DETAILS OF COMPUTER STUDENT			
HARDWARE STUDENT		SOFTWARE STUDENT	
NAME	ROLL NO.	NAME	ROLL NO.
BIKRAM	01	SUMIT	01
SUMIT	02	SUMAN	02

Project Group List			
GROUP	NAME	Project Name	TIME
A	Bikram Halder	E-Commerce website	10:00 am - 12:00 pm
	Sumit Kumar Ghosh		12:10 pm - 02:10 pm
B	Suman Kalapahar	College Website	10:00 am - 11:05 am
	Santa Saw		11:10 am - 12:15 pm
	Ranita Samanta		12:20 pm - 01:25 pm

Lesson – 7

- Radio & Checkbox button
- Option tag

```
<HTML>
<HEAD>
<TITLE> HTML </TITLE>
</HEAD>
<body>
```

Gender

```
<label for="Male">
<INPUT type="radio" name="GENDER" value="Male" id="Male"> Male
</label> <label for="Female">
<INPUT type="radio" name="GENDER" value="Female" id="Female">Female
</label> <BR><br>
```

Course

```
<Select name="Course" required>
  <option value=""> --- Select --- </option>
  <option name="Course" value="WEB DEVELOPMENT"> Web Development </option>
  <option name="Course" value="JAVA PROGRAMMING"> JAVA PROGRAMMING </option>
  <option name="Course" value="C PROGRAMMING"> C PROGRAMMING </option>
</Select></body></HTML>
```


Gender ☐ Male ☐ Female

Course

Lesson – 8

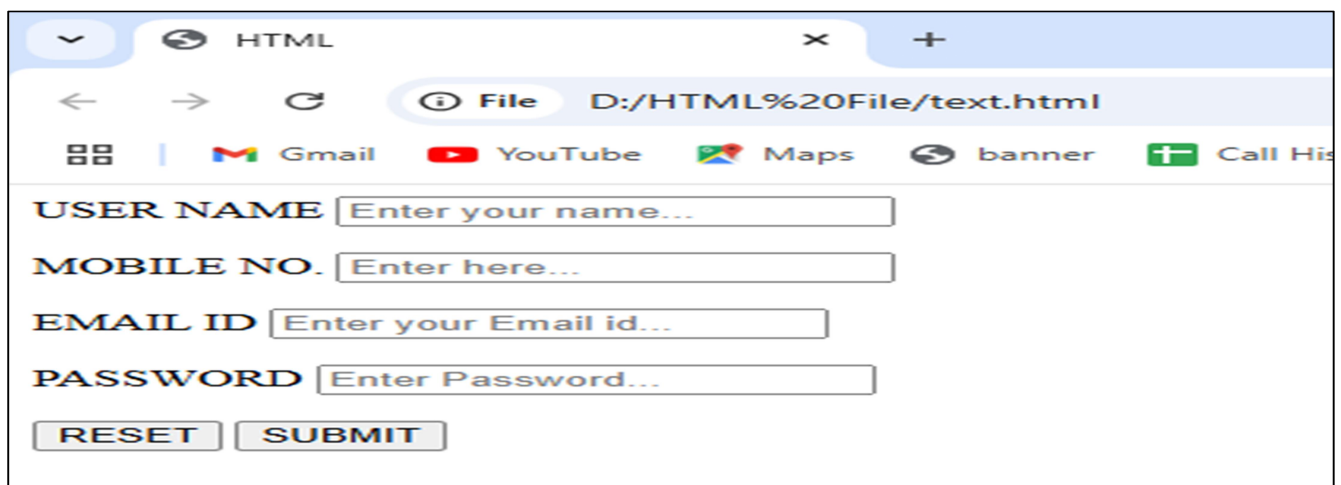
- HTML form design (Submit, Reset Button & Input type)

```
<HTML>
<HEAD>
<TITLE> HTML </TITLE>
</HEAD>
<body>
<FORM id="register" method="post" name="google-sheet">

USER NAME <INPUT type="text" name="NAME" placeholder="Enter your name..." required> <br><br>
MOBILE NO. <INPUT type="number" name="CONTACT NUMBER" placeholder="Enter here..." required> <BR><BR>
EMAIL ID <INPUT type="text" name="EMAIL" placeholder="Enter your Email id..." required> <br><br>
PASSWORD <INPUT type="password" name="PASSWORD" placeholder="Enter Password..." required> <BR><BR>

<INPUT type="RESET" value="RESET">
<INPUT type="SUBMIT" value="SUBMIT">

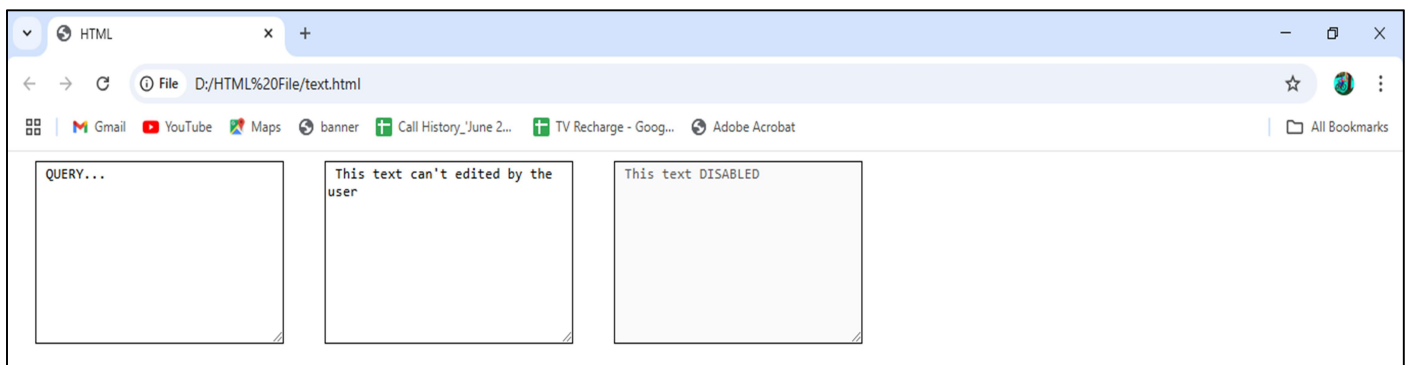
</FORM></body></HTML>
```



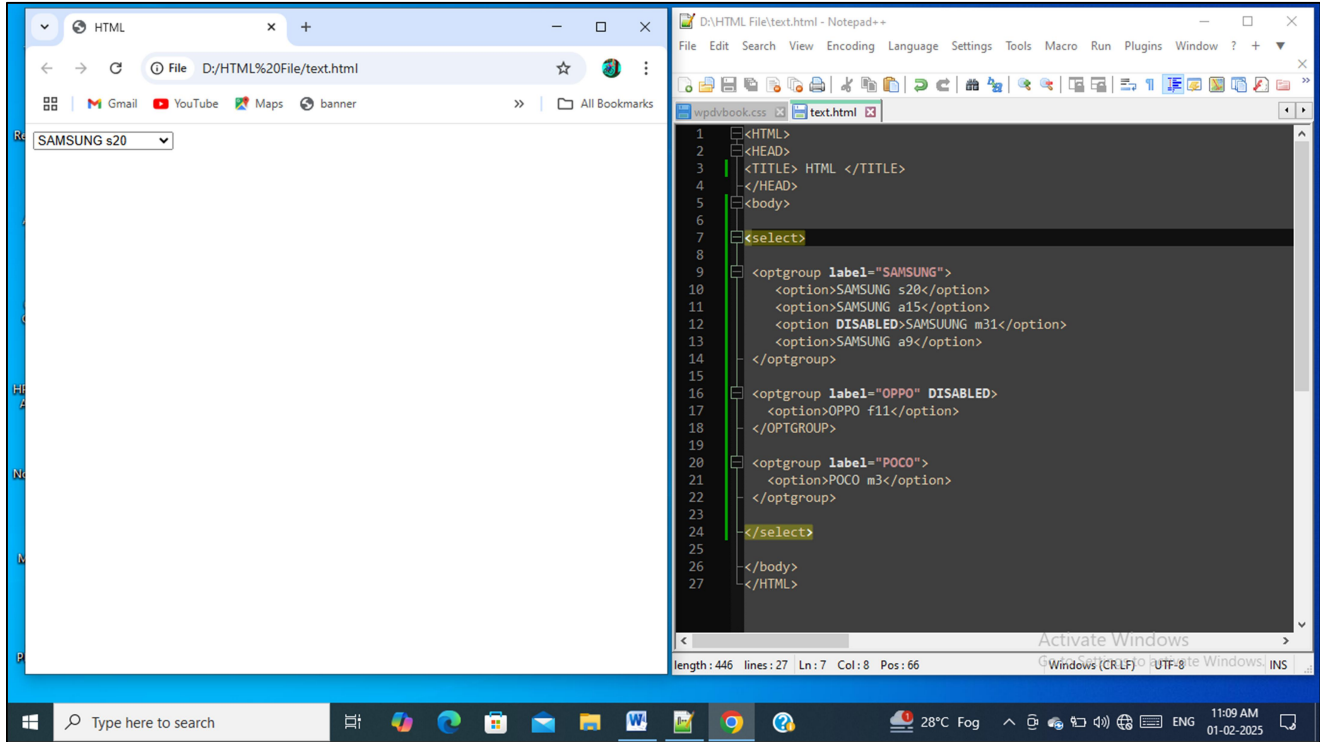
The screenshot shows a web browser window with the title "HTML". The address bar displays "D:/HTML%20File/text.html". The browser's search bar contains "File". Below the search bar, there are several icons for Gmail, YouTube, Maps, banner, and Call His. The main content area of the browser displays the HTML form. The form consists of four input fields: "USER NAME" with placeholder "Enter your name...", "MOBILE NO." with placeholder "Enter here...", "EMAIL ID" with placeholder "Enter your Email id...", and "PASSWORD" with placeholder "Enter Password...". Below these fields are two buttons: "RESET" and "SUBMIT".

- Textarea tag

```
<HTML>
<HEAD>
<TITLE> HTML </TITLE>
<STYLE>
DIV{
display:FLEX;
}
TEXTAREA{
MARGIN-INLINE:20PX;
BORDER:1PX SOLID BLACK;
}
</STYLE>
</HEAD>
<body>
<DIV>
<TEXTAREA ROWS="10" COLS="30" placeholder="Enter here..."> QUERY... </TEXTAREA> <br><BR>
<TEXTAREA ROWS="10" COLS="30" placeholder="Enter here..." READONLY> This text can't edited by the user </TEXTAREA>
<br><BR>
<TEXTAREA ROWS="10" COLS="30" placeholder="Enter here..." DISABLED> This text DISABLED </TEXTAREA> <br>
</DIV>
</body>
</HTML>
```



- Optgroup tag



HTML form design using CSS

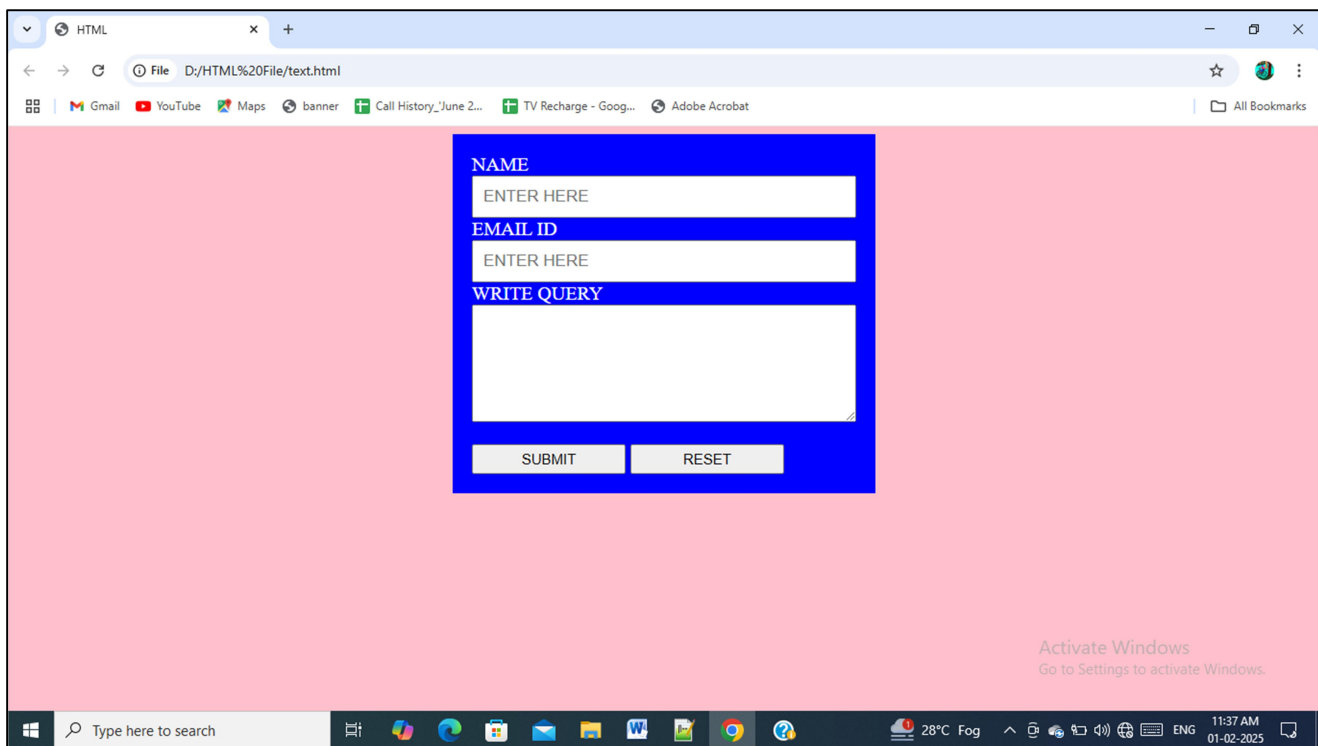
```
<HTML>
<HEAD>
<TITLE> HTML </TITLE>
<STYLE>
BODY{
    background:PINK;
}
FORM{
    WIDTH:400PX; padding:20PX; margin:AUTO; background:BLUE;
    font-size:20PX; COLOR:WHITE;
}
INPUT[TYPE="TEXT"].TEXTAREA{
    WIDTH:100%; padding:10PX; font-size:17PX;
}
INPUT[TYPE="SUBMIT"].INPUT[TYPE="RESET"]{
    padding:5PX; font-size:15PX; cursor:POINTER; WIDTH:40%;
}
INPUT[TYPE="SUBMIT"]:HOVER,INPUT[TYPE="RESET"]:HOVER{
    background-color:black; COLOR:WHITE;
}
</STYLE>
</HEAD>
<body>
```

```

<FORM>
NAME <BR> <INPUT TYPE="TEXT" NAME="NAME" PLACEHOLDER="ENTER HERE" REQUIRED> <BR>
EMAIL ID <BR> <INPUT TYPE="TEXT" NAME="EMAIL ID" PLACEHOLDER="ENTER HERE" REQUIRED> <BR>
WRITE QUERY <BR>
<TEXTAREA COLS="21" ROWS="5" PLACEHOLDER="ENTER QUERY HERE"> </TEXTAREA> <BR><BR>
<INPUT TYPE="SUBMIT" VALUE="SUBMIT">
<INPUT TYPE="RESET" VALUE="RESET">
</FORM>

</body>
</HTML>

```



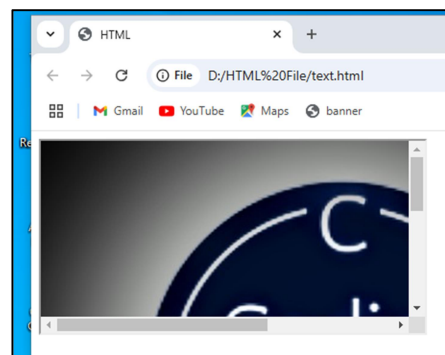
Lesson – 9

- Iframe tag

```

<iframe img src="C:\Users\user\OneDrive\Pictures\L.jpg"
width="400px" height="200px"> </iframe>

```



- Div tag

```
<HTML>
<HEAD>
<TITLE> HTML </TITLE>
<style>
.main{
    text-align:center;
    display:flex;
    flex-direction:row;
    border:1px solid red;
}
.BOX{
    margin-inline:20px;
}
</style>
</HEAD>
<body>

<div class="main">

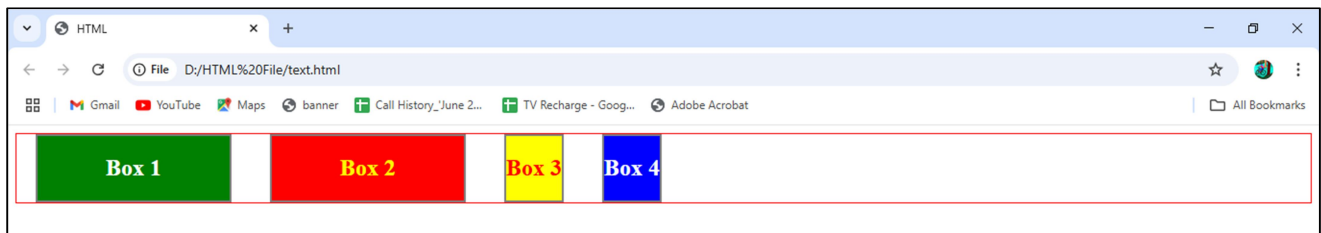
<div class="box" style="border:2px solid gray; background-color:green; color:white; text-align:center; width:200px;">
    <h2> Box 1 </h2>
</div>

<div class="box" style="border:2px solid gray; background-color:red; color:yellow; width:200px;">
    <h2> Box 2 </h2>
</div>

<div class="box" style="border:2px solid gray; background-color:yellow; color:red;">
    <h2> Box 3 </h2>
</div>

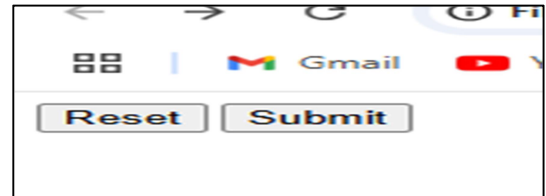
<div class="box" style="border:2px solid gray; background-color:blue; color:white;">
    <h2> Box 4 </h2>
</div>

</div>
</body>
</HTML>
```



- Button tag

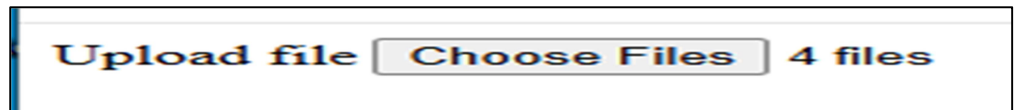
```
<BUTTON type="reset"> Reset </BUTTON>
<a href="#"> <BUTTON> Submit </BUTTON> </a>
```



Values of input type attribute...

text, email, password, number, radio, checkbox, submit, reset, date, datetime-local, tel, hidden, time, month, url, image, search, range, color, file, hidden, week

file : <input type="file"
name="file" accept="image/*"
multiple>



- Audio tag

```
<audio controls preload="audio">
<source src="#" type="audio/mp3">
</audio>
```

<audio controls attribute>

- Loop
- Preload="audio"/"none"
- Muted



Lesson – 10

- Video tag
- Dfn & abbr tag

```
<video width="500px" poster="image link paste" control>
<source src="#" type="video/mp4">
</video>
```

Video tag

```
<h1> What is RAM ? </h1>
<P> <dfn title="RANDOM ACCESS MEMORY"> Random </dfn>
Access
<ABBR TITLE="Store the data"> Memory </ABBR> </P>
```

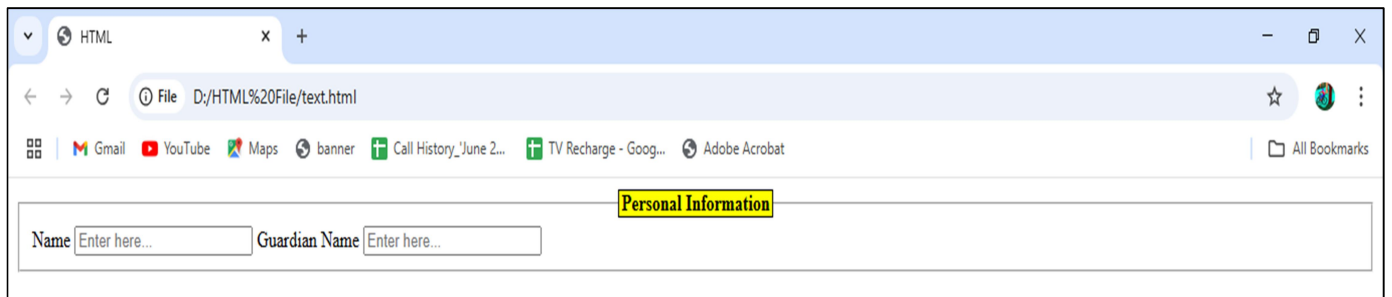
Dfn & Abbr tag

- Fieldset & Legend tag

```
<HTML>
<HEAD>
<TITLE> HTML </TITLE>
</HEAD>
<body>

<fieldset> <legend align="center" style="border:1px solid black; background-color:yellow; font-weight:bold;"> Personal
Information </legend>
Name <input type="text" placeholder="Enter here...">
Guardian Name <input type="text" placeholder="Enter here...">
</fieldset>

</body></HTML>
```



Version of HTML :

Version	Year	Developer
HTML	1991	Tim Berners Lee
HTML+	1993	
HTML 2.0	1995	
HTML 3.2	1997	
HTML 4.01	1999	
XHTML	2000	
HTML 5	2014	

- Object tag

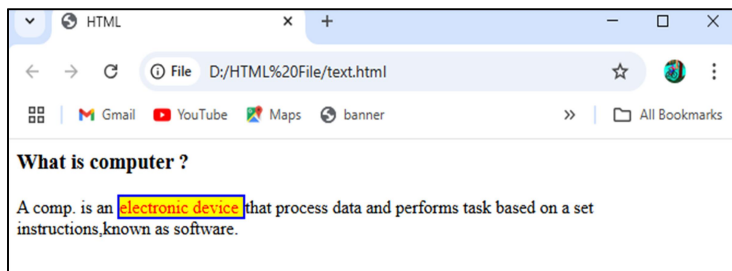
```
object data="paste video link here" type="video/mp4" width="400px" height="300px"
name="moviebox"></object>
```

Lesson – 11

- Span tag

```
h3> What is computer ?</h3>
```

```
<p> A comp. is an <span style="color:red;
background:yellow; border:2px solid blue"> electronic
device </span> that process data and performs task
```



- Details tag

```
<details>
```

```
<summary><b>HTML Introduction</b></summary>
```

```
<pre> <p> HTML stands for HYPER TEXT MARKUP LANGUAGE
for creating webpage </p> </pre>
```

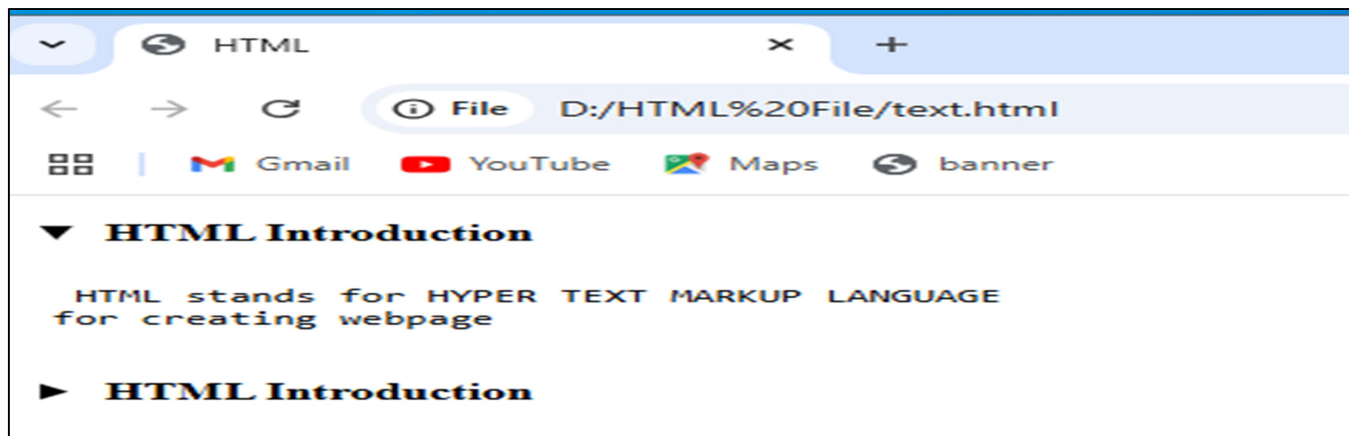
```
</details>
```

```
<details>
```

```
<summary><b>HTML Introduction</b></summary>
```

```
<pre> <p> HTML stands for HYPER TEXT MARKUP LANGUAGE
for creating webpage </p> </pre>
```

```
</details>
```



CSS(Cascading Style Sheets)

JAVA SCRIPT

Java Script is a simple and popular programming language used to make websites interactive it allows you to add features like pop-ups, animations and forms that respond to user input. It works in your web browser and is essential for creating modern, dynamic website.

Two types of scripting language ----- (a) **Client Side** .
(b) **Server Side** .

Name print : document.write ("Hello World");

Rules of write Java Script in HTML file :

```
<html>
<head><title> Java Script </title>
<script>
    document.write ("Hello World");
</script>
</head>
<body>
    <h1> Java Script </h1>
<script>
    document.write ("Hello World 2");
</script>
</body>
</html>
```

Link external Java Script :

```
<html>
<head> <title> Java Script </title>
<script src = "imp.js"> </script>
</head>
<body>
<script src = "imp.js"> </script>
</body>
</html>
```

index.html

```
document.write ("Hello World");
```

imp.js

Implement HTML tag in Java Script :

```
<html>
<head> <title> Java Script </title>
</head>
<body>
<script>
    document.write (“<u> Hello </u> <br> World”);
    document.write (“<b> Hello </b> <br> World”);
</script>
</body>
</html>
```

Arithmetic Operator

```
<script>
document.write(3+3); // ( Here ‘+’ is a operator)
</script>
```

Variable declare :

```
<script>
    var a=5;
    var b=5;
    document.write(a+b);
</script>
```

```
<script>
    var a=5;
    var b=5;
    var c=a+b;
    document.write(c);
</script>
```

```
<script>
    var a=10;
    var b=6;
    a++/a--
    document.write(a);
</script>
```

Assignment Operator

- **Simple Assignment** : a=a+b
- **Compound Assignment** : a+=b

Simple Assignment :

```
<script>
    var a=10;
    var b=5;
    a=a+b;/a=a - b;
    document.write(a);
</script>
```

OUTPUT – (+) 15
(-) 5

Compound Assignment :

```
<script>
    var a=10;
    var b=5;
    a+=b;/a-=b;
    document.write(a);
</script>
```

OUTPUT - 15

“Comment line” in Java Script :

Single line comment ---

➤ // Single line

Multiple line comment --- /* Multiple line comment */

Operators :

- ✓ Arithmetic Operators : + , - , / , *
- ✓ Assignment Operators : = , += , -= , /=
- ✓ Comparison Operators : < , > , == , <=
- ✓ Logical Operators : && , || , !
- ✓ Conditional Operators : ? , :

Google chrome console

How to open “Console Panel” : Open HTML page > Right click > click Inspect > Console

Or

CTRL + Shift + I

Print in console panel : `console.log(“Hello World”);`

Array define :

```
<script>
  console.log([1,3,5]);
</script>
```

```
<script>
  console.table([1,3,5,7,9,0]);
</script>
```

Comparison Operator

`==` (Equal to)
`===` (Equal value and equal type)
`!=` (Not equal)
`!==` (Not equal value and not equal type)
`>` (Greater than)
`<` (Less than)
`>=` (Greater than equal)
`<=` (Less than equal)

`==` (Equal to) :

```
<script>
  var a=10;
  var b=10;
  console.log(a==b);
</script>
OUTPUT : true
```

`===` (Equal value and equal type) :

```
<script>
  var a="10";
  var b=10;
  console.log(a===b);
</script>
OUTPUT : false
```

`!=` Not equal :

```
<script>
  var a=10;
  var b="10";
  console.log(a!=b);
</script>
OUTPUT : false
```

`!==` Not equal value and not equal type :

```
<script>
  var a=10;
  var b="10";
  console.log(a!==b);
</script>
OUTPUT : true
```

> Greater than :

```
<script>
    var a=30;
    var b=10;
    console.log(a>b);
</script>
OUTPUT : true
```

>= Greater than or equal :

```
<script>
    var a=10;
    var b=10;
    console.log(a>=b);
</script>
OUTPUT : true
```

If/else condition :

```
<script>
var a=20;
var b="20";
if (a==b){
    document.write("Number is equal");
}
else{
    document.write("Number is not equal");
}
</script>
OUTPUT : Number is equal.
```

Logical Operator

&& 1 false all false
|| 1 true all true
== Equal
= value assign

&& :

```
<script>
var age=17;
if(age>=18 && age<=40){
    document.write("Elegible for vote");
}else{
    document.write("Not eligible for vote");
}
OUTPUT : Not eligible for vote.
```

|| :

```
<script>
var a=19;
var b=41;
if(a>=18 || b<=40){
    document.write("Elegible");
}
else{
    document.write("Not Eligible");
}
OUTPUT : Eligible.
```

If/else if statement :

```
<script>
var marks=290;
if(marks<=100 && marks>=80){
    document.write("Grade A / Pass");
}else if(marks<=79 && marks>=60){
    document.write("Grade B / Pass");
}else if(marks<=59 && marks>=30){
    document.write("Grade C / Pass");
}
else if(marks<=29){
    document.write("Fail");
}
else{
    document.write("Number is unsufficient");
}
</script>
```

OUTPUT : Number is unsufficient.

Variable : Used to store data.

```
<script>
    var fn = "Bikram";
    var ln = "Halдар";
    document.write(ln);
</script>

OUTPUT : Halдар

<script>
    var fn,ln,age;
    fn = "Coding";
    ln = "World";
    age = 21;
    document.write(fn," ",ln," - ",age);
</script>
```

OUTPUT : Coding World - 21

Const , Let :

```
<script>
const name = "Coding";
const nam = "World";
const na = "v1.1";
document.write(na);
</script>
```

OUTPUT : v1.1

***Same variable (const,let)
name will be not allowed .**

```
<script>
let name = "Coding";
    nam = "World";
document.write(name);
</script>

OUTPUT : Coding
```

Data Type :

Preemptive : String , Number , Boolean , Null , Undefined

Non – Preemptive : Object , Array

String

```
<script>
    var a = "Coding World";
    document.write(a);
    document.write("<br>");
    document.write(typeof a);
</script>
```

OUTPUT : Coding World

string

Number

```
<script>
    var a = 20;
    document.write(a);
    document.write("<br>");
    document.write(typeof a);
</script>
```

OUTPUT : 20

number

Boolean

```
<script>
    var a = true;
    document.write(a);
    document.write("<br>");
    document.write(typeof a);
</script>
```

OUTPUT : true

boolean

Non - Preemptive : <script>

Object

```
var a = ["red","green","blue"];
document.write(a);
document.write("<br>");
document.write(typeof a);
</script>
```

OUTPUT : object

Object

```
<script>
    var a = {Name:"Bikram" , Country:"Bhrat"};
    document.write(a.Name , " ", a.Country);
    document.write("<br>");
    document.write(typeof a);
</script>
```

OUTPUT : Bikram Bharat

Object

Ternary Operator :

Conditional Operator

```
<script>
    var age = 18;
    var vote;
    if(age>=18){
        vote = "Yes you are eligible";
    }
    else{
        vote = "You are not eligible";
    }
    document.write(vote);
</script>
```

OUTPUT : Yes you are eligible

```
<script>
    var age = 17;
    var vote = age>=18 ? "Yes" : "Not";
    document.write(vote);
</script>
```

OUTPUT : Not

Switch Case :

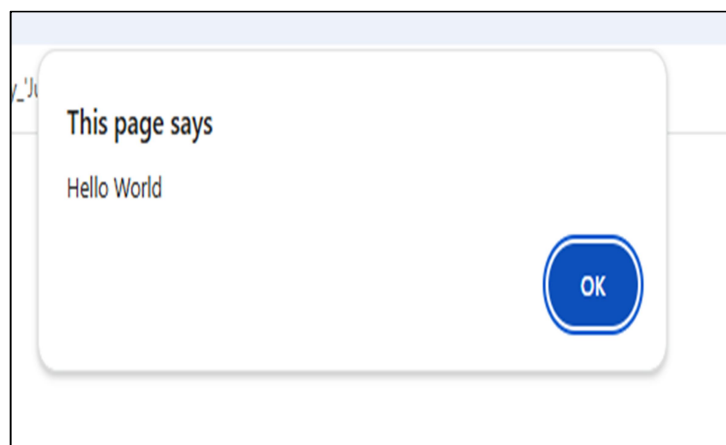
```
<script>
    var ch="E";
    switch(ch){
        case "A":
        case 'E':
            document.write("Vowel");
            break;
        default:
            document.write("Consonent");
    };
</script>
```

OUTPUT : Vowel

```
<script>
    var ch=prompt("Enter");
    switch(ch){
        case "A":
        case 'E':
            document.write("Vowel");
            break;
        default:
            document.write("Consonent");
    };
</script>
```

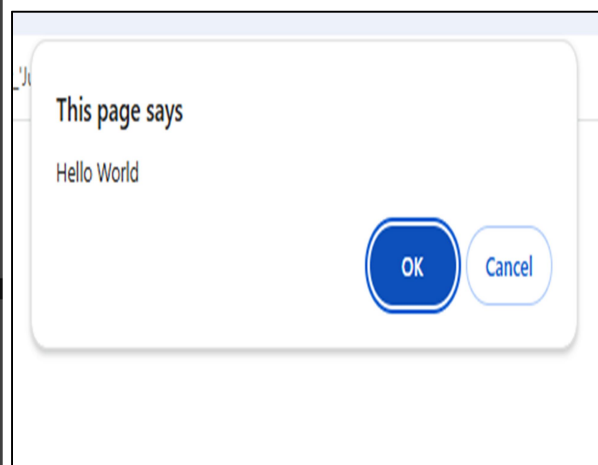
Alert box :

```
1 <HTML>
2 <HEAD>
3   <TITLE> HTML file </TITLE>
4 </HEAD>
5 <BODY>
6
7   <!-- This is alert box -->
8 <script>
9   alert("Hello World");
10 </script>
11
12
13
14 </BODY>
15 </HTML>
```



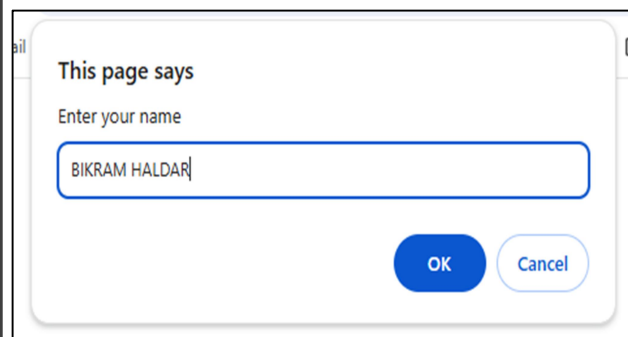
Confirm box :

```
1 <HTML>
2 <HEAD>
3   <TITLE> HTML file </TITLE>
4 </HEAD>
5 <BODY>
6
7   <!-- This is confirm box -->
8 <script>
9   confirm("Hello World");
10 </script>
11
12   <!-- Confirm box -->
13 <script>
14   var x = confirm("Hello");
15   alert(x);
16 </script>
17
18   <!-- Confirm box -->
19 <script>
20   var x = confirm ("Do you like our webpage");
21   if(x){
22     alert("Thanks");
23   }
24   else{
25     alert("It'ok");
26   }
27 </script>
28
29 </BODY>
30 </HTML>
```



Prompt box :

```
1 <HTML>
2 <HEAD>
3   <TITLE> HTML file </TITLE>
4 </HEAD>
5 <BODY>
6
7   <!-- This is prompt box -->
8 <script>
9   prompt("Enter your name");
10 </script>
11
12   <!-- Prompt box -->
13 <script>
14   var x = prompt("Enter Your name");
15   alert(x);
16 </script>
17
18   <!-- prompt box -->
19 <script>
20   var x = prompt("Enter your name");
21   document.write("Welcome" + " " + x);
22 </script>
23
24
25 </BODY>
26 </HTML>
27
```

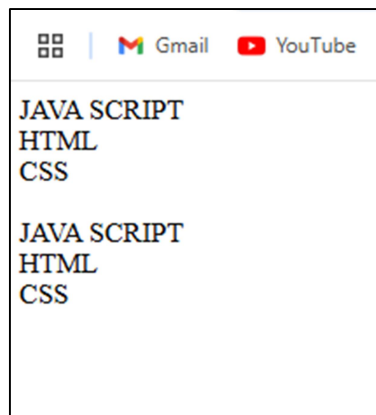


Function :

Writing format :

```
Function function_name ( ) {  
    Statement ( );  
};
```

```
<!-- This function -->  
<script>  
    function myfc(){  
        document.write("JAVA SCRIPT");  
        document.write("<BR>");  
        document.write("HTML");  
        document.write("<BR>");  
        document.write("CSS");  
        document.write("<br>");  
  
        document.write("<br>");  
    };  
    myfc ();  
    myfc ();  
</script>
```



Function with parameter :

```
Function function_name (parameter 1 , parameter 2){  
    Function_name (argument 1 , argument 2);  
};
```

```
<!-- This function with parameter -->  
<script>  
    function myfc (fname,lname){  
        document.write("Hii mr." + " " + fname + " " +  
lname);  
    };  
    myfc("Bikram","Haldar");  
</script>
```

OUTPUT : Hii mr. Bikram Haldar

```
<!-- This function with parameter -->  
<script>  
    function myfc (fname = "Bikram", lname = "Haldar"){  
        document.write("Hii" + " " + fname + " " + lname +  
"<br>");  
    };  
    myfc();/myfc("Haldar","Bikram");  
    myfc("Bkrm","Hldr");  
    myfc("B","Hldr");  
    myfc("h","Hldr");  
</script>
```

<!-- This function with parameter -->

<script>

```
function myfc (x,y){  
    document.write(x+y+" "+"<br>");  
};  
myfc (10,2);  
myfc (12,3);  
myfc (13,3);
```

</script>

**OUTPUT : 12
15
16**

Function Return Value :

<script>

```
function name (fname,lname){  
    var x = "Hello" + " " + fname + " " + lname + "<br>";  
    return x ;  
};  
var y = name ("Bikram","Haldar");  
document.write(y);
```

</script>

OUTPUT : Hello Bikram Haldar

<script>

```
document.write("Total Marks - 500","<br>");  
function marks(Ben,Eng,Math){  
    var x = Ben+Eng+Math;  
    return x;  
};  
  
var y = marks(50,30,25);  
document.write("Obtain Marks - " + y + "<br>");  
  
function percentage(tm){  
    var z = tm*100/500;  
    return z;  
};  
  
var a = percentage(y);  
document.write("Percentage - "+a+ "%");
```

</script>

OUTPUT :

Total Marks - 500
Obtain Marks - 105
Percentage - 21%

Global v/s Local variable :

Global Variable :

```
<script>
    var name = "Bikram Haldar";
    document.write(name);
</script>
```

OUTPUT : Bikram Haldar

Local Variable :

```
<script>
function name(){
    var x = "Bikram Haldar";
    document.write("Hello," + " " + x + "<br>");
};
name();
name();
</script>
```

OUTPUT : Bikram Haldar
Bikram Haldar

Loop :

1. For Loop
2. While Loop
3. Do – While Loop

For Loop :

```
<script>
    var x;
    for (x=1;x<=10;x++){
        document.write(x + "<br>");
    };
</script>
```

OUTPUT
1
2
3
4
5
6
7
8
9
10

While Loop :

```
<script>
    var x=1;
    while(x<=7){
        document.write(x + "<br>");
        x++;
    };
</script>
```

1
2
3
4
5
6
7

OUTPUT

Do – While Loop : *(If condition is false then program will be execute atleast 1 time)

```
<script>
    var i=1;
    do{
        document.write(i + "<br>");
        i++;
    }
    while(i<=8);
</script>
```

1
2
3
4
5
6
7
8

OUTPUT

Array : An array is a data structure that stores a collection of elements of the same type in a contiguous block of memory. Each element in the array can be accessed using an index which typically starts at 0.

Print all :

```
<script>
    var sub = ["Bengali","English",'Math'];
    document.write(sub);
</script>
```

Bengali,English,Math

OUTPUT

Print particular subject :

```
<script>
    var sub = ["Bengali","English",'Math'];
    document.write(sub[2]);
</script>
```

Math

OUTPUT

Update any value in array :

```
<script>
    var sub = ["Bengali","English",'Math'];
    sub[0]='Sanskrit';
    document.write(sub + "<br>");
    document.write(sub[0]);
</script>
```

OUTPUT

Sanskrit,English,Math
Sanskrit

Array Methods :

1. **Length** (Check how many element available in the array)
2. **Push** (Add new element in the array from the last)
3. **Unshift** (Add new element in the array from the first)
4. **Pop** (Delete element from the last)
5. **Shift** (Delete element from the first)
6. **Splice** (Delete multiple element from the middle)
7. **IndexOf** (Check element position in the array)
8. **Split** (Convert text to element)

Length :

```
<script>
    var sub = ["Bikram","Halдар","B",'H',''];
    document.write(sub.length);
</script>
OUTPUT : 5
```

Push :

```
<script>
    var sub = ["Bikram","Halдар","B",'H'];
    sub.push("Coding World");
    document.write(sub + "<br>");

    document.write(sub.length);
</script>

OUTPUT : Bikram,Halдар,B,H,Coding World
5
```

Unshift :

```
<script>
    var sub = ["Bengali","English",'Math'];
    sub.unshift("Computer");
    document.write(sub + "<br>");

    document.write(sub.length);
</script>

OUTPUT: Computer,Bengali,English,Math
4
```

Pop :

```
<script>
    var sub = ["Bengali","English",'Math'];
    sub.pop();
    document.write(sub + "<br>");

    document.write(sub.length);
</script>

OUTPUT: Bengali,English
2
```

Shift :

```
<script>
    var sub = ["Bengali","English",'Math'];
    sub.shift();
    document.write(sub + "<br>");

    document.write(sub.length);
</script>

OUTPUT : English,Math
2
```

Splice :

```
<script>
    var sub = ["B","E",'M',"C",'j'];
    sub.splice(1,2);
    document.write(sub + "<br>");

    document.write(sub.length);
</script>
```

OUTPUT : B,C,j
3

indexOf :

```
<script>
    var sub = ["B","E",'M',"C",'j'];
    var ch = sub.indexOf("M");
    document.write(ch);
</script>
```

OUTPUT : 2

Split :

```
<script>
    var text = "This is coding world";
    var word = text.split(" ");
    document.write(word);
</script>
```

OUTPUT : This,is,coding,world