COLLEGE OF ENGINEERING CHERTHALA
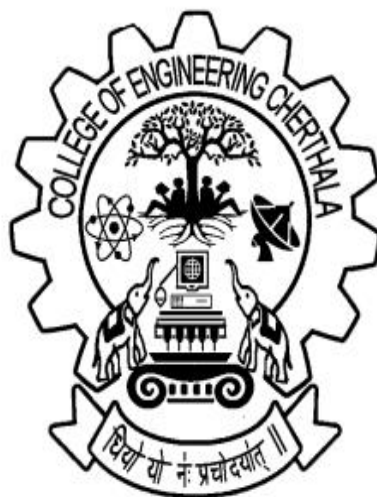
LAB RECORD

20MCA133 – WEB PROGRAMMING LAB

CERTIFICATE

This is certified to be bonafide works of Mr./Ms. …………………………….. …………………., In the class ………………….., Reg. No. .... , of College of Engineering Cherthala, during the academic year 2024-25.

Lab In Charge: External Examiner :

                                                                      Internal Examiner:

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Program :-

```
<html>
<head>
<title>HTML_tags</title>
</head>
<body>
Hello World!
<b>This text is bold</b>
<!-- This is a comment -->
<a href="http://www.google.com/">Visit Our Site</a>
<big>Example</big> <!-- big -->
The contents of your page<br>The contents of your page
<center>This will center yourcontents</center>
<dl>
<dt>Definition Term</dt>
<dd>Definition of the term</dd>
<dt>Definition Term</dt>
<dd>Definition of the term</dd>
</dl>
 This is an <em>Example</em> of using the emphasis tag<br>
 <font face="Times New Roman">Example</font> <br>
 <font face="Times New Roman" size="4" color="#ff0000">Example</font>
 <hr width="25%" color="#6699ff" size="6" />
<i>Example</i>
<img src="/home/cec/Desktop/jj/good_morning.jpeg" width="41" height="41" border="0" alt="image" />
 <menu>
 <li type="disc">
List item 1</li>
```

Program No.1

Demonstration of different HTML tags

Aim :- To create a simple HTML file to demonstrate the use of different tags

Algorithm :-

Step 1- Open a text editor or HTML editor.

Step 2- Start with an HTML5 doctype declaration: .

Step 3- Add the opening and closing html tags.

Step 4- Add the head section within the html tags.

Step 5- Within the head section, add a title tag to give the page a title.

Step 6- Add a link tag within the head section to link to a stylesheet if needed.

Step 7- Add the body section within the html tags.

Step 8- Add a header section within the body tags to include any header information you want.

Step 9- Add a nav section within the body tags to create a navigation menu for the links.

Step 10- Within the nav section, create a list of links using the ul and li tags.

Step 11- Use the a tag within each li tag to link to the appropriate HTML pages.

Step 12- Add a section tag within the body tags to contain the main content of the page. 14.Within the section tag, create any additional div or article tags needed to organize the content.

Step 13- Add an img tag within the section tag to include any images needed.

Step 14- Use the table tag to create any tables needed within the section tag.

Step 15- Within the section tag, use the a tag to create links within the same page using href="#anchor" and id="anchor" to specify the location of the link.

Step 16- Add a footer section within the body tags to include any footer information you want.

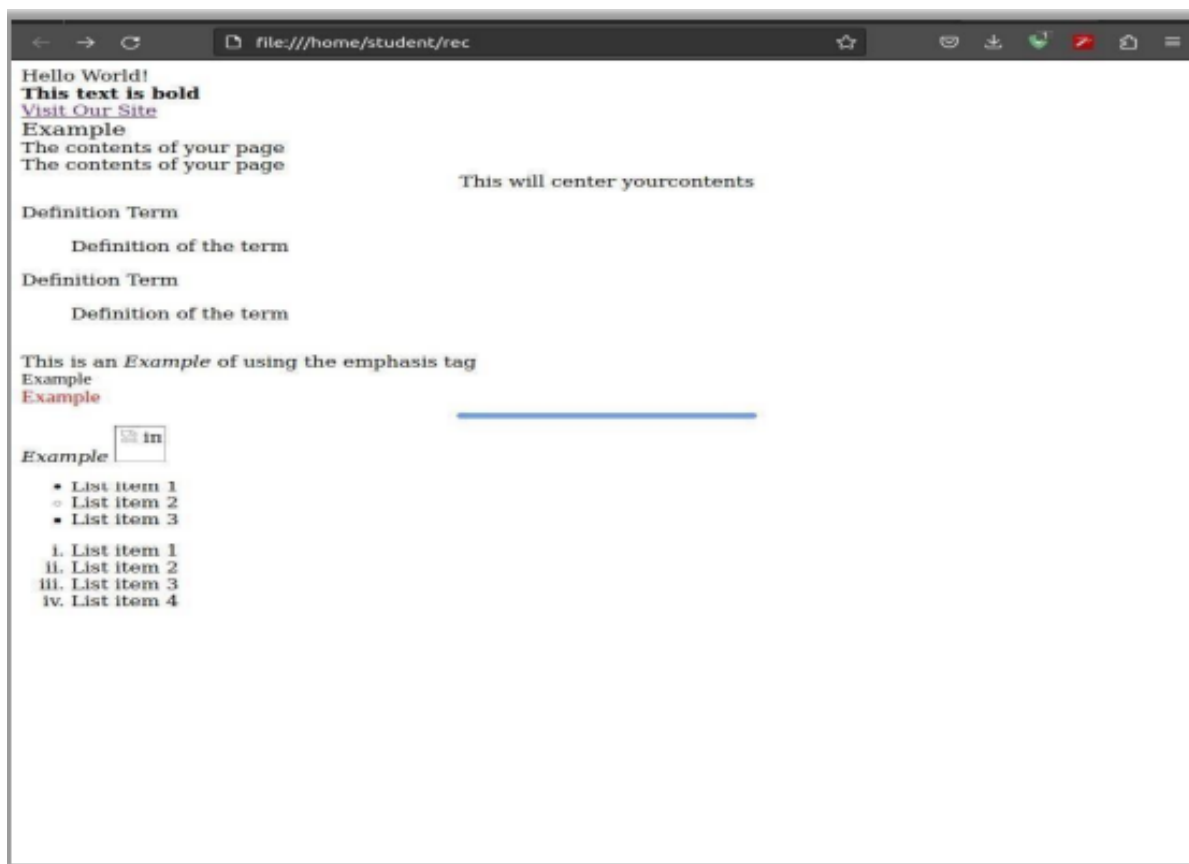Step 17- Close the body section and the html section.

```
<li type="circle">List item 2</li>
 <li type="square">List item 3</li>
</menu>
<ol type="i">
<li>List item 1</li>
<li>List item 2</li>
 <li>List item 3</li>
 <li>List item 4</li>
 </ol>
</body>
 </html>
```
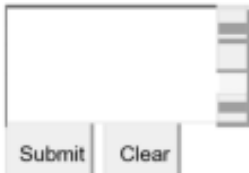
Output:
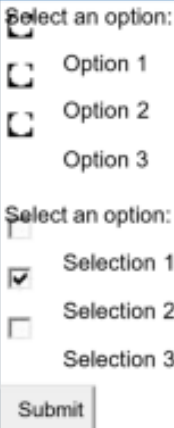
Tag	Name	Code Example	Browser View
<!--	comment	<!--This can be viewed in the **HTML** part of a document-->	Nothing will show (Tip)
<a -	anchor	****Visit Our Site****	Visit Our Site (Tip)
	bold	****Example****	**Example**
<big>	big (text)	**<big>**Example**</big>**	Example (Tip)
<body>	body of HTML document	**<body>**The content of your HTML page**</body>**	Contents of your web page (Tip)
 	line break	The contents of your page** **The contentsof your page	The contents of your web page The contents of your web page
<center>	center	**<center>**This will center your contents**</center>**	This will center your contents
<dd>	definition descripti on	<dl> <dt>Definition Term</dt> **<dd>Definition of the term</dd>** <dt>Definition Term</dt> **<dd>Definition of the term</dd>** </dl>	Definition Term **Definition of the term** Definition Term **Definition of the term**
<dl>	definitionlist	**<dl>** <dt>Definition Term</dt> <dd>Definition of the term</dd> <dt>Definition Term</dt> <dd>Definition of the term</dd> **</dl>**	Definition Term Definition of the term Definition Term Definition of the term
<dt>	definition term	<dl> **<dt>Definition Term</dt>** <dd>Definition of the term</dd> **<dt>Definition Term</dt>** <dd>Definition of the term</dd> </dl>	**Definition Term** Definition of the term **Definition Term** Definition of the term
	emphasis	This is an ****Example**** of usingthe emphasis tag	This is an *Example* of usingthe emphasis tag
<embed>	embed object	**<embed** src="yourfile.mid" width="100%" height="60" align="center">	(Tip)
<embed>	embed object	**<embed** src="yourfile.mid" autostart="true" hidden="false" loop="false"> <noembed><bgsound src="yourfile.mid" loop="1"></noembed>	Music will begin playing when your page is loaded and will only play one time.A control panel will be displayed to enable your visitors to stop the music.
	font	**<font** face="Times New Roman">Example****	Example (Tip)

7

`<font>`	font	`<font` face="Times New Roman" size="4">Example`</font>`	Example (Tip)
`<font>`	font	`<font` face="Times New Roman" size="+3" color="#ff0000">Example`</font>`	Example (Tip)
`<form>`	form	`<form` action="mailto:you@yourdomain.com"> Name: `<input` name="Name" value="" size="10">` ` Email: `<input` name="Email" value="" size="10">` ` `<center>``<input` type="submit">`</center>` `</form>`	Name: (Tip) Email: Submit
`<h1>` `<h2>` `<h3>` `<h4>` `<h5>` `<h6>`	heading 1 heading 2 heading 3 heading 4 heading 5 heading 6	`<h1>`Heading 1 Example`</h1>` `<h2>`Heading 2 Example`</h2>` `<h3>`Heading 3 Example`</h3>` `<h4>`Heading 4 Example`</h4>` `<h5>`Heading 5 Example`</h5>` `<h6>`Heading 6 Example`</h6>`	**Heading 1** **Heading 2** **Heading 3** **Heading 4** **Heading 5** Heading 6
`<head>`	heading of HTML document	`<head>`Contains elements describing the document`</head>`	Nothing will show
`<hr>`	horizontal rule	`<hr />`	Contents of your web page (Tip) Contents of your web page
`<hr>`	horizontal rule	`<hr` width="50%" size="3" />	Contents of your web page Contents of your web page
`<hr>`	horizontal rule	`<hr` width="50%" size="3" noshade />	Contents of your web page Contents of your web page
`<hr>` (Internet Explorer)	horizontal rule	`<hr` width="75%" color="#ff0000" size="4" />	Contents of your web page Contents of your web page
`<hr>` (Internet Explorer)	horizontal rule	`<hr` width="25%" color="#6699ff" size="6" />	Contents of your web page Contents of your web page
`<html>`	hypertext markup language	`<html>` `<head>` `<meta>` `<title>`Title of your web page`</title>` `</head>` `<body>`**HTML web page** contents `</body>` `</html>`	Contents of your web page
`<i>`	italic	`<i>`Example`</i>`	*Example*
`<img>`	image	`<img` src="Earth.gif" width="41" height="41" border="0" alt="text describingthe image" />	(Tip)

<input>	**input field**	Example 1: <form method=post action="/cgi-bin/example.cgi"> **<input** type="text" size="10" maxlength="30"> **<input** type="Submit" value="Submit"> </form>	Example 1: (Tip) Submit
<input> (Internet Explorer)	**input field**	Example 2: <form method=post action="/cgi-bin/example.cgi"> **<input** type="text" style="color: #ffffff; font-family: Verdana; font-weight: bold; font-size: 12px; background-color: #72a4d2;" size="10" maxlength="30"> **<input** type="Submit" value="Submit"> </form>	Example 2: (Tip) Submit
<input>	**input field**	Example 3: <form method=post action="/cgi-bin/example.cgi"> <table border="0" cellspacing="0" cellpadding="2"><tr><td bgcolor="#8463ff"><input type="text" size="10" maxlength="30"></td><td bgcolor="#8463ff" valign="Middle"> <input type="image" name="submit" src="yourimage.gif"></td></tr> </table> </form>	Example 3: (Tip) GO
<input>	**input field**	Example 4: <form method=post action="/cgi-bin/example.cgi"> Enter Your Comments:
 <textarea wrap="virtual" name="Comments"rows=3 cols=20 maxlength=100></textarea>
 <input type="Submit" value="Submit"> **<input** type="Reset" value="Clear"> </form>	Example 4: (Tip) Submit Clear
<input>	**input field**	Example 5: <form method=post action="/cgi-bin/example.cgi"> <center> Select an option: <select> <option >option 1</option> <option selected>option 2</option> <option>option 3</option> <option>option 4</option> <option>option 5</option> <option>option 6</option> </select>
 <input type="Submit" value="Submit"></center> </form>	Example 5: Tip) Select an option: option 2 Submit
<input>	**input field**	Example 6:	Example 6: (Tip)

		```<form method=post action="/cgi-bin/example.cgi"> Select an option: <input type="radio" name="option"> Option1 <input type="radio" name="option" checked> Option 2 <input type="radio" name="option"> Option3 Select an option: <input type="checkbox" name="selection">Selection 1 <input type="checkbox" name="selection" checked> Selection 2 <input type="checkbox" name="selection"> Selection 3 <input type="Submit" value="Submit"> </form>```	Select an option: ☐ Option 1 ☐ Option 2 Option 3 Select an option: ☐ Selection 1 ☑ Selection 2 ☐ Selection 3 Submit

	list item	Example 1:
		
		```<menu> <li type="disc">List item 1 <li type="circle">List item 2 <li type="square">List item 3 </MENU>```
		
		Example 2:
		
		```<ol type="i"> - List item 1 - List item 2 - List item 3 - List item 4 ```
			Example 1: (Tip)
			
			• **List item 1**
			○ **List item 2**
			▪ **List item 3**
			
			Example 2:
			
			i. **List item 1**
			ii. **List item 2**
			iii. **List item 3**
			iv. **List item 4**

<link>	link	```<head> <link rel="stylesheet" type="text/css" href="style.css" /> </head>```	
<marquee> (Internet Explorer)	scrolling text	```<marquee bgcolor="#cccccc" loop="-1" scrollamount="2" width="100%">Example Marquee</marquee>```	✗ (Tip)
<menu>	menu	```<menu> <li type="disc">List item 1 <li type="circle">List item 2 <li type="square">List item 3 </menu>```	• List item 1 ○ List item 2 ▪ List item 3
<meta>	meta	```<meta name="Description" content="Description of your site"> <meta name="keywords" content="keywords describing your site">```	Nothing will show (Tip)
<meta>	meta	```<meta HTTP-EQUIV="Refresh" CONTENT="4;URL=http://www.yourdomain.com/">```	Nothing will show (Tip)

`<meta>`	meta	`<meta http-equiv="Pragma" content="no-cache">`	Nothing will show (Tip)
`<meta>`	meta	`<meta name="rating" content="General">`	Nothing will show (Tip)
`<meta>`	meta	`<meta name="robots" content="all">`	Nothing will show (Tip)
`<meta>`	meta	`<meta name="robots" content="noindex,follow">`	Nothing will show (Tip)

`<ol>`	ordered list	**Numbered**
		
		`<ol>`
		`<li>List item 1</li>`
		`<li>List item 2</li>`
		`<li>List item 3</li>`
		`<li>List item 4</li>`
		`</ol>`
		
		Numbered Special Start
		
		`<ol start="5">`
		`<li>List item 1</li>`
		`<li>List item 2</li>`
		`<li>List item 3</li>`
		`<li>List item 4</li>`
		`</ol>`
		
		Lowercase Letters
		
		`<ol type="a">`
		`<li>List item 1</li>`
		`<li>List item 2</li>`
		`<li>List item 3</li>`
		`<li>List item 4</li>`
		`</ol>`
		
		Capital Letters
		
		`<ol type="A">`
		`<li>List item 1</li>`
		`<li>List item 2</li>`
		`<li>List item 3</li>`
		`<li>List item 4</li>`
		`</ol>`
		
		Capital Letters Special Start
		
		`<ol type="A" start="3">`
		`<li>List item 1</li>`
		`<li>List item 2</li>`
		`<li>List item 3</li>`
		`<li>List item 4</li>`
		`</ol>`
		
		Lowercase Roman Numerals
		
		`<ol type="i">`
		`<li>List item 1</li>`
		`<li>List item 2</li>`
		`<li>List item 3</li>`
		`<li>List item 4</li>`
		`</ol>`
			Numbered
			
			1. List item 1
			2. List item 2
			3. List item 3
			4. List item 4
			
			Numbered Special Start
			
			5. List item 1
			6. List item 2
			7. List item 3
			8. List item 4
			
			Lowercase Letters
			
			a. List item 1
			b. List item 2
			c. List item 3
			d. List item 4
			
			Capital Letters
			
			A. List item 1
			B. List item 2
			C. List item 3
			D. List item 4
			
			Capital Letters Special Start
			
			C. List item 1
			D. List item 2
			E. List item 3
			F. List item 4
			
			Lowercase Roman Numerals
			
			i. List item 1
			ii. List item 2
			iii. List item 3
			iv. List item 4
			
			Capital Roman Numerals
			
			I. List item 1
			II. List item 2
			III. List item 3
			IV. List item 4

		Capital Roman Numerals
		
		`<ol type="I">`
		`<li>List item 1</li>`
		`<li>List item 2</li>`
		`<li>List item 3</li>`
		`<li>List item 4</li>`
		`</ol>`
		
		Capital Roman Numerals Special Start
		
		`<ol type="I" start="7">`
		`<li>List item 1</li>`
		`<li>List item 2</li>`
		`<li>List item 3</li>`
		`<li>List item 4</li>`
		`</ol>`
			Capital Roman Numerals Special Start
			
			VII.　　List item 1
			VIII.　　List item 2
			IX.　　List item 3
			X.　　List item 4

`<option>`	listbox option	`<form method=post action="/cgi-bin/example.cgi">` `<center>` Select an option: `<select>` `<option>option 1</option>` `<option selected>option 2</option>` `<option>option 3</option>` `<option>option 4</option>` `<option>option 5</option>` `<option>option 6</option>` `</select> ` `</center>` `</form>`	Select an option: (Tip) option 2
`<p>`	paragraph	This is an example displaying the use of the paragraph tag. `<p>` This will create a line break and a space between lines. Attributes: Example 1:` ` ` ` `<p align="left">` This is an example` ` displaying the use` ` of the paragraph tag.` ` ` ` Example 2:` ` ` ` `<p align="right">` This is an example` `displaying the use` ` of the paragraph tag.` ` ` ` Example 3:` ` ` ` `<p align="center">` This is an example` `displaying the use` `of the paragraph tag.	This is an example displaying the use of the paragraph tag. This will create a line breakand a space between lines. Attributes: Example 1: This is an example displaying the use of the paragraph tag. Example 2: This is an example displaying the use of the paragraph tag. Example 3: This is an example displaying the use of the paragraph tag.
`<small>`	small (text)	`<small>Example</small>`	Example (Tip)

<strike>	deleted text	<strike>Example</strike>	~~Example~~
	strong emphasis	Example	**Example**
<table>	table	Example 1: **<table border="4" cellpadding="2" cellspacing="2" width="100%">** **<tr>** **<td>Column 1</td>** **<td>Column 2</td>** **</tr>** **</table>** Example 2: (Internet Explorer) **<table border="2" bordercolor="#336699"** **cellpadding="2" cellspacing="2" width="100%">** **<tr>** **<td>Column 1</td>** **<td>Column 2</td>** **</tr>** **</table>** Example 3: **<table cellpadding="2" cellspacing="2"** **width="100%">** **<tr>** **<td bgcolor="#cccccc">Column 1</td>** **<td bgcolor="#cccccc">Column 2</td>** **</tr>** **<tr>** **<td>Row 2</td>** **<td>Row 2</td>** **</tr>** **</table>**	Example 1: (Tip) Column 1 Column 2 Example 2: (Tip) Column 1 Column 2 Example 3: (Tip) Column 1 Column 2 Row 2 Row 2
<td>	table data	<table border="2" cellpadding="2" cellspacing="2" width="100%"> <tr> **<td>Column 1</td>** **<td>Column 2</td>** </tr> </table>	**Column 1** **Column 2**
<th>	table header	<div align="center"> <table> <tr> **<th>Column 1</th>** **<th>Column 2</th>** **<th>Column 3</th>** </tr> <tr> <td>Row 2</td> <td>Row 2</td> <td>Row 2</td> </tr> <tr> <td>Row 3</td> <td>Row 3</td> <td>Row 3</td>	**Colum** **Colum** **Colum** **n 1** **n 2** **n 3** Row 2 Row 2 Row 2 Row 3 Row 3 Row 3 Row 4 Row 4 Row 4

		`</tr>`
		`<tr>`
		`<td>Row 4</td>`
		`<td>Row 4</td>`
		`<td>Row 4</td>`
		`</tr>`
		`</table>`
		`</div>`	

`<title>`	document title	`<title>Title of your HTML page</title>`	Title of your web page willbe viewable in the title bar.(Tip)

`<tr>`	table row	`<table border="2" cellpadding="2"`
		`cellspacing="2" width="100%">`
		`<tr>`
		`<td>Column 1</td>`
		`<td>Column 2</td>`
		`</tr>`
		`</table>`
			Column 1 Column 2

`<tt>`	teletype	`<tt>Example</tt>`	Example
`<u>`	underline	`<u>Example</u>`	Example
`<ul>`	unordered list	Example 1:` ` ` ` `<ul>` `<li>List item 1</li>` `<li>List item 2</li>` `</ul>` ` ` Example 2:` ` `<ul type="disc">` `<li>List item 1</li>` `<li>List item 2</li>` `<ul type="circle">` `<li>List item 3</li>` `<li>List item 4</li>` `</ul>` `</ul>`	Example 1: • List item 1 • List item 2 Example 2: • List item 1 • List item 2 ○ List item 3 ○ List item 4

Result:- Program executed and output obtained successfully.

Program:-

Biodata.html

```html
<html>
    <head>
        <title>biodata</title>
    </head>
    <body>
        <center>
        <h1><b>BIODATA</b></h1>
        </center>
        <ul type="circle">
            <li>Name:Rahul Krishna</li>
            <li>Age:21</li>
            <li>Gender:Male</li>
            <li>Father's name:Krishnakumar V</li>
            <li>Mother's name:Reshma K</li>
        </ul>
        <a href="Education.html">My educational qualfication</a>
    </body>
</html>
```

Education.html

```html
<html>
    <head>
        <title>qualification</title>
    </head>
    <body>
        <center>
            <h1>Educational Qualification</h1>
            <table border="4" cellpadding="2" cellspacing="2' width="75%">
            <tr>
                <th colspan="3">Qualification And Institute</th>
```

Program No.2

Link different HTML pages

Aim: Create a HTML file to link to different HTML page which contains images, tables, and also link within a page.

Algorithm:-

Step 1: Start

Step 2: Open the html and head tags and set the page title to "biodata".

Step 3: Start the body tag to define the content of the webpage.

Step 4: Create a center tag to center the title text and display the title "BIODATA" in a <h1> tag and make it bold using <b>.

Step 5: Display the biodata details in unordered list (ul) with circle-type bullet points (type="circle"). Add several list items (li), each containing specific biodata information Name, Age, Gender, Father's name, Mother's name.

Step 6: Use the <a> tag to create a hyperlink that directs to Education.html with the text "My educational qualification".

Step 7: End the biodata.html file by closing the body and html tags.

Step 8: Create new html file qualification.html .

Step 9: Open the html and head tags and set the page title to "qualification".

Step 10: Start the body tag to define the content of the webpage.

Step 11: Create a center tag to center the text and display the header "Educational Qualification" in an <h1> tag.

Step 12: Use a <table> tag to define a table with the following attributes: border of 4, cellpadding of 2, cellspacing of 2, and width of 75%.

Step 13: Create a row (<tr>) for the table header and add column headers using the <th> tag "Qualification and Institute" (spans 3 columns), "Mark" (spans 2 columns).

Step 14: Add rows for different educational qualifications.

Step 15: Use the <a> tag to create a hyperlink that directs to Profile.html with the text "My profile photo".

Step 16: End the Education.html file by closing the center, body, and html tags.

Step 17: Create new html file qualification.html .

Step 18: Open the html and head tags and set the page title to "Photo".

Step 19: In the body of the page, create a center tag to center the image.

Step 20: Use the <img> tag to display the profile photo. Set the src attribute to "11.png" (the image file).

```html
        <th colspan="2">Mark</th>
                    </tr>
                    <tr>
                            <th>Education</th>
                            <th>Year of Pass</th>
                            <th>Institute</th>
                            <th>Total mark</th>
                            <th>Percentage</th>
                    </tr>
                    <tr>
                            <td>SSLC</td>
                            <td>2019</td>
                            <td rowspan="2">Govt.HS Alappuzha</td>
                            <td>500</td>
                            <td>89%</td>
                    </tr>
                    <tr>
                            <td>Plus Two</td>
                            <td>2021</td>
                            <td>1107</td>
                            <td>92%</td>
                    </tr>
                    <tr>
                            <td>Graduation</td>
                            <td>2024</td>
                            <td>SD College Alappuzha</td>
                            <td>600</td>
                            <td>75%</td>
                    </tr>
                    <tr>
                            <td>ML Course</td>
```

Step 21: End the Profile.html file by closing the body and html tags.

Step 22: Stop

```html
                    <td>2024</td>
                    <td>InfoTech Ernakulam</td>
                    <td>100</td>
                    <td>70%</td>
            </tr>
            <tr>
                    <td>AI Course</td>
                    <td>2024</td>
                    <td>Qspiders Palarivattom</td>
                    <td>60</td>
                    <td>71%</td>
            </tr>
        </table>
        <a href="Profile.html">My profile photo</a>
        </center>
    </body>
</html>
```
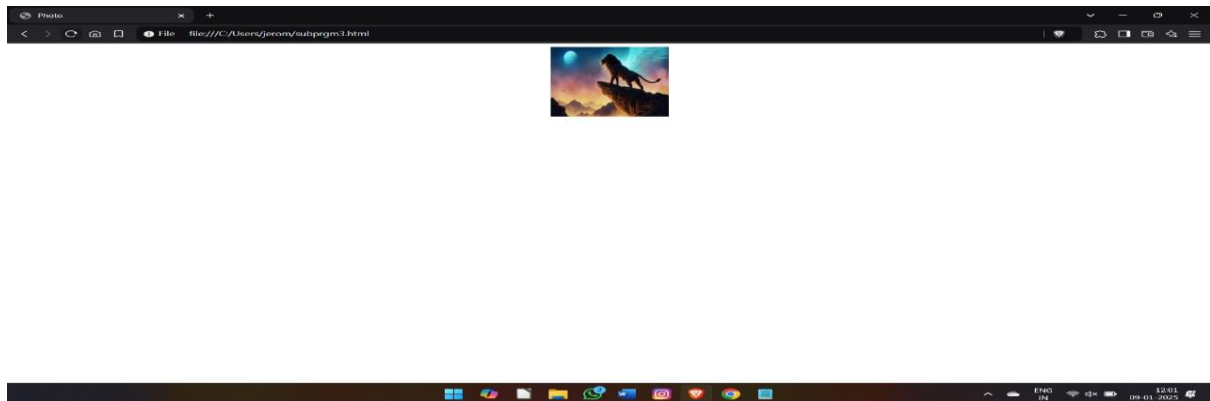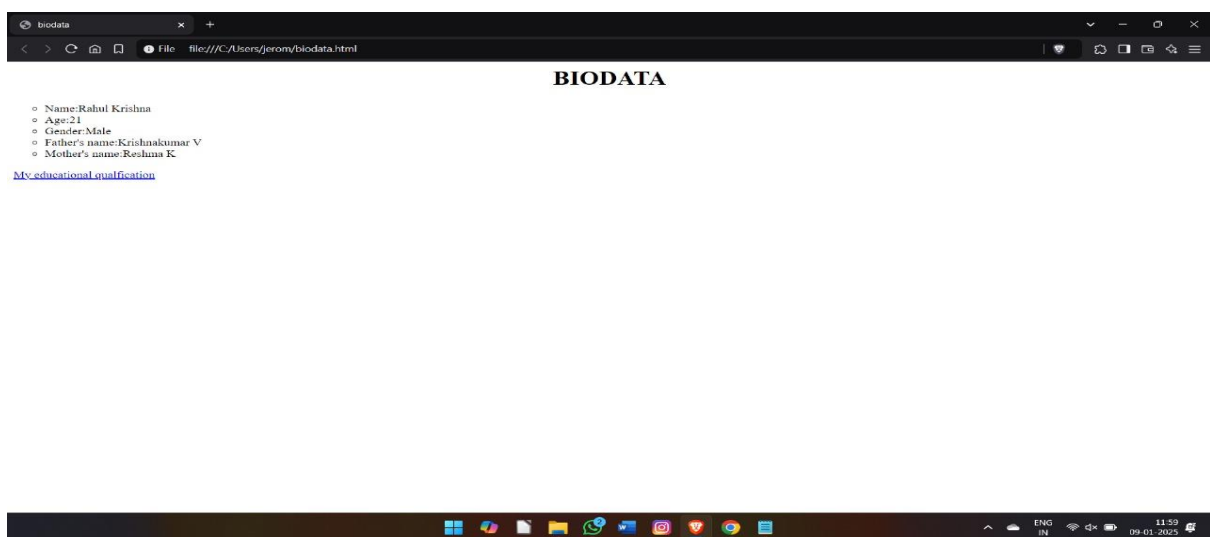
Profile.html

```html
<html>
    <head>
        <title>Photo</title>
    </head>
    <body>
        <center>
            <img src="11.png" width="150" height="150" border="0"/>
        </center>
    </body>
</html>
```

Output:-

Result:- Program executed and output obtained successfully.

Program :-

Frame.html

```html
<html>
    <head>
        <center>
            <iframe src="https://www.wikipedia.org/"style="border:1px black;" width="100%" height="100%"><iframe>
        </center>
    </head>
    <body bgcolor="black">
    </body>
</html>
```

Frameset.html

```html
<html>
    <head>
        <title>frames in html</title>
        <frameset cols="20%,80%">
            <frame src="first.html">
                <frameset rows="20%,60%,20%">
                    <frame src="frame.html">
                        <frameset cols="50%,50%">
                            <frame src="second.html">
                            <frame src="third.html">
                        </frameset>
                    <frame src="frame.html">
                </frameset>
        </frameset>
    </head>
    <body>
    </body>
</html>
```

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Program No.3

HTML pages with different frames

Aim :- To create a HTML page with different types of frames such as floating frame,navigation frame & mixed frame.

Algorithm :-

Step 1. Open a text editor or HTML editor.

Step 2. Add the frameset section within the html tags.

Step 3. Within the frameset section, specify the number and size of the frames using the

frame and frameset tags.

Step 4. Use the frame tag to define each frame and its contents.

Step 5. Use the src attribute within the frame tag to specify the URL of the content to

be displayed in the frame.

Step 6. Use the name attribute within the frame tag to specify a name for each frame.

Step7. Use the cols or rows attribute within the frameset tag to specify the layout of the frames

either horizontally or vertically.

Step 8. Use the frameborder attribute within the frameset tag to specify whether or

not the frames should have borders.

Step 9. Use the border attribute within the frame tag to specify whether or not the

frame contentshould have a border.

Step 10. Use the scrolling attribute within the frame tag to specify whether or

not the frame conten should have scrollbars.

Step 11. Add a noframes section within the frameset section to display content for

browsers that do not support frames.

Step 12. Within the noframes section, add HTML code to display content for browsers

that do not support frames.

First.html

```html
<html>
    <head>
            <title></title>
            <style>
                    h1{
                    font-size:45px;
                    color:green;
                    border:2px solid blue

                    }
                    p{
                    color:red;
                    font-family:Arial;
                    }
    #cars{
      margin-top:10px;
      margin-left: 60px;
    }
    #cars a{
      text-decoration: none;
      display: block;
      padding: 30px;
      font-size: 20px;
      color:black;
    }
            </style>
     </head>
     <body bgcolor="grey">
            <h1 align="center"><b>SHIFTGEAR</b></h1>
    <div id="cars">
```

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```
            <img src="porsche1.jpg" width="60%" height="10%"><br><br>

            <a href="#">Home</a>

            <a href="#">New cars</a>

            <a href="#">Used cars</a>

            <a href="#">Sell cars</a>

            <a href="#">Car loan</a>

        </div>

        </body>

</html>
```

Second.html

```
<html>

        <head>

                <title>second</title>

                        <style>

                        p{

                                font-size:30px;

                        }

                        </style>

                </head>

        <body bgcolor="cyan">

                <P style="color:brown;font-family:Arial;">Shift gear is one of the india's <br>leading
source of new car pricing and other car related information.</p>

        </body>

</html>
```

Third.html

```
<html>

        <head>

                <title>second</title>

                        <style>

                        p{

                                font-size:30px;
```

```
                    }
                </style>
            </head>
        <body bgcolor="black">
                <h2 style="color:white;">ALL BRANDS</h2>
                <ul type="disc" style="color:red;font-size:20px;">
                        <li>BMW</li><br>
                        <li>BENZ</li><br>
                        <li>TOYOTA</li><br>
                        <li>VOLVO</li><br>
                        <li>AUDI</li><br>
                </ul>
        </body>
</html>
```
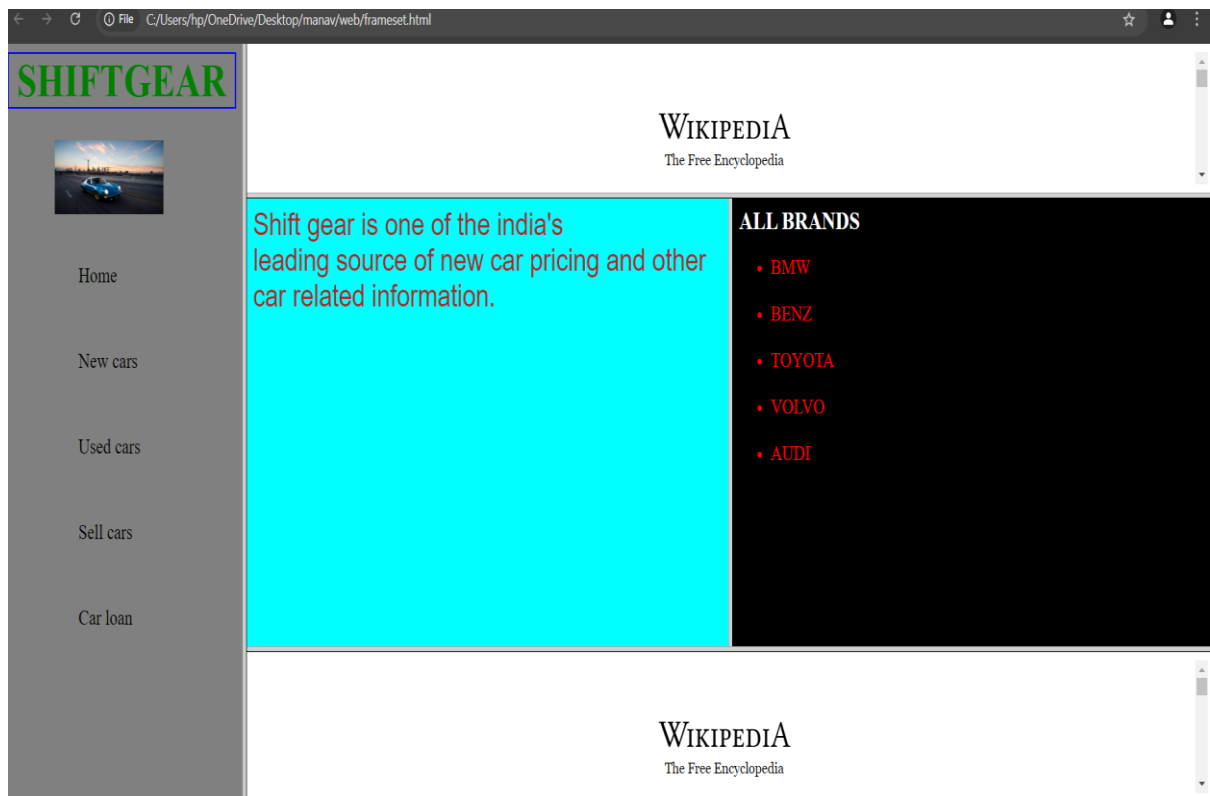
Output:-

Result:- Program executed and output obtained successfully

Program:-

Css.html

```html
<html>
     <head>
          <title>csssample</title>
          <style>
               h2{
                    font-size:40px;
                    color:red;
                    text-align:center;
               }
               #H3{
                    font-size:50px;
                    color:#ff0092;
                    text-align:center;
               }
               #p1{
                    text-align:center;
                    color:green;
                    font-size:20px;
                    font-family:tahoma;
               }
               #p2{
                    text-align:center;
                    color:blue;
                    font-size:25px;
                    font-family:georgian;
               }
```

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Program No.4

HTML files using different styles

Aim: Create an HTML file by applying the different styles using inline, external, internal style sheets.

Algorithm :-

Step 1. Open a text editor or HTML editor.

Step 2. Start with an HTML5 doctype declaration: <!DOCTYPE html>.

Step 3. Add the opening and closing html tags.

Step 4. Add the head section within the html tags.

Step 5. Within the head section, add a title tag to give the page a title.

Step 6. Add a link tag to include an external style sheet in the head section.

Use the rel attribute with a value of stylesheet, the type attribute with a value of text/css, and the href attribute with the file path or URL of the external style sheet. For example: <link rel="stylesheet" type="text/css" href="style.css">.

Step 7. Add an style tag to include internal style sheet in the head section.

Use the type attribute with a value of text/css. Within the style tag, write CSS rules to apply styles to HTML elements on the page.

```
        </style>

        <link rel="stylesheet" href="style1.css">

    </head>

    <body>

        <h2>GitHub</h2>

        <p id="p1">GitHub is a developer platform that allows develpers to
        create,store,manage and share their code.<br></p>

        <h2>W3schools</h2>

        <p class="c1">W3schools is a freemium educational website for learning coding
        online.<br>Initially released in 1998,it derives its name from the world wild website

        but is not affiliated with the W3 consortium.</p>

        <h3 id="H3">Infosys</h3>

        <p id="p2">Infosys Limited is an indian multinational technology <br>brcompany
        that offers bussiness consulting,information technology,and  outsourcing
        services.<br></p>

    </body>

</html>
```
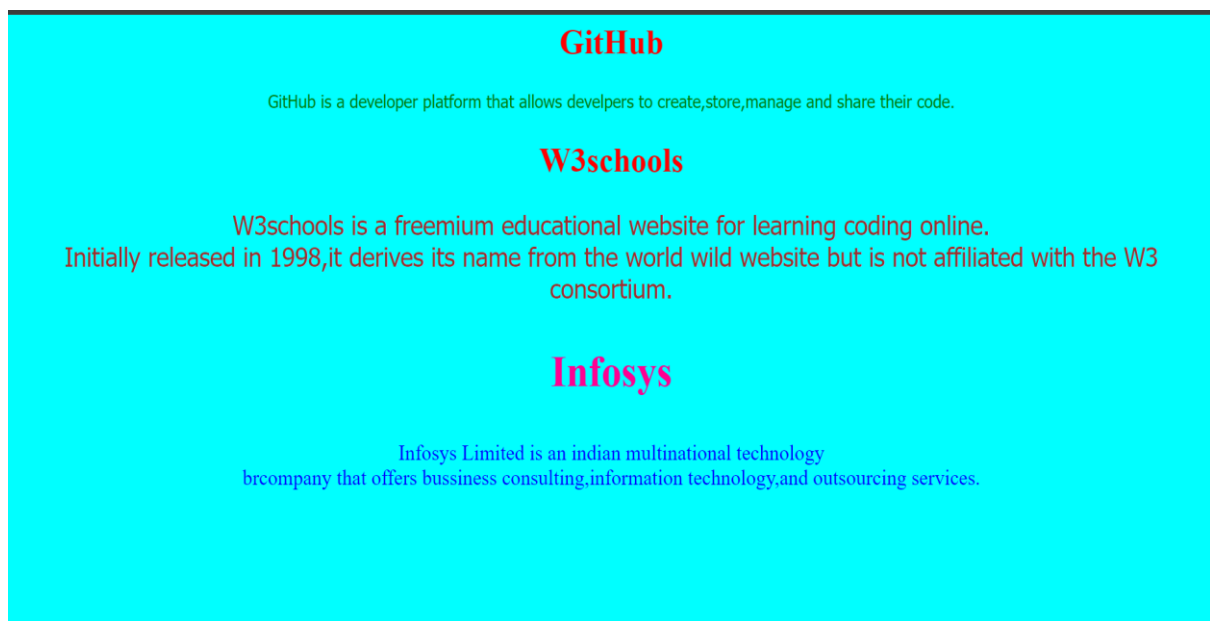
Output:-

Result:- Program executed and output obtained successfull

Program:-

Registration.html

```html
<html>
    <head>
        <title>applicationform</title>
        <style>
            body{
                color:white;
            }
            table{
                background-color:grey;
                color:black;
                border:4px solid;
                border-color:black;
                border-collapse: collapse;
            }
            h3 {
                display: inline-block;
                background-color:yellow;
            }
            #btn1{
                background-color:red;
                color:white;
            }
            #btn2{
                background-color:green;
                color:white;
            }
        </style>
        <link rel="stylesheet" href="style.css"></head>
```

Program No.5

Registration form using HTML

Aim: To create a registration form using HTML.

Algorithm:-

Step 1. Open a text editor or HTML editor.

Step 2. Add the body section within the html tags.

Step 3. Use the form tag to define the registration form.

Step 4 Use the action attribute within the form tag to specify the URL of the page that
will handlethe form data.

Step 5. Use the method attribute within the form tag to specify the HTTP
method to use for submitting the form data (e.g. "get" or "post").

Step 6. Use the input tag to define each input field within the form.

Step 7. Use the type attribute within the input tag to specify the type of input field
(e.g. "text", "password", "email", "checkbox", etc.).

Step 8. Use the name attribute within the input tag to specify a name for each input field.

Step 9. Use the placeholder attribute within the input tag to specify a placeholder text for each
input field.

Step 10. Use the required attribute within the input tag to specify whether or not each
input fieldis required.

Step 11. Use the label tag to create a label for each input field.

Step 12. Use the for attribute within the label tag to associate the label
with its corresponding inputfield using the id attribute.

Step 13. Use the button tag to create a submit button for the form.

Step 14. Use the type attribute within the button tag to specify the type of button (e.g. "submit").

Step 15. Add any additional HTML elements or styling as desired.

```html
<body>
<marquee scrollamount="15" style=color:red;>
        <h3>WELCOME TO FRESHERS WORLD!!!</h3>
</marquee>
        <center>
                <table border="1" width="50%" cellspacing="1" cellpadding="10"
                height="30%">
                        <tr>
                                <td colspan="3" align="center"><b>REGISTRATION
                                FORM</b></td>
                        </tr>
                        <tr>
                                <td>NAME</td>
                                <td colspan="2"><input type="text"></td>
                        </tr>
                        <tr>
                                <td>AGE</td>
                                <td colspan="2">
                                        <select id="age" name="age">
                                        <option value="select">select</option>
                                        <option value="1">1</option>
                                        <option value="2">2     </option>
                                        <option value="3">3</option>
                                        <option value="5">5</option>
                                        <option value="6">6     </option>
                                        <option value="7">7</option>
                                        <option value="8">8</option>
                                        <option value="9">9     </option>
                                        <option value="10">10</option>
                                </td>
                        </tr>
                        <tr>
```

```html
            <td>PASSWORD</td>

            <td colspan="2"><input type="password"></td>

    </tr>

    <tr>

            <td>RETYPE PASSWORD</td>

            <td colspan="2"><input type="password"></td>

    </tr>

    <tr>

            <td rowspan="4">SELECT YOUR SECURITY QUESTIONS</td>

            <td colspan="2">

                    <input type="checkbox" id="1"><label>Whats your
                    pets name?</label><br>

            </td>

    </tr>

    <tr>

            <td colspan="2">

                    <input type="checkbox" id="1"><label>Who is your
                    best friend?</label><br>

            </td>

    </tr>

    <tr>

            <td colspan="2">

                    <input type="checkbox" id="1"><label>Whats your
                    favourate color?</label><br>

            </td>

    </tr>

    <tr>

            <td colspan="2">

                    <input type="checkbox" id="1"><label>Who is your
                    favourate teacher?</label><br>
```

```html
            </td>
    </tr>
    <tr>
            <td>ANSWER OF SECURITY QUESTION</td>
            <td colspan="2"><input type="text"></td>
    </tr>
    tr>
            <td>EMAIL</td>
            <td colspan="2"><input type="text"></td>
    </tr>
    <tr>
            <td>LANGUAGE KNOWS</td>
            <td colspan="2">
                    <input type="radio" id="1"
                    name="r"><label>English</label>

                    <input type="radio" id="2"
                    name="r"><label>Malayalam</label>

                    <input type="radio" id="3"
                    name="r"><label>Hindi</label>
            </td>

    </tr>
    <tr>
            <td rowspan="2">PHONE NUMBER</td>
            <td>Home</td>
            <td>Office</td>


    </tr>
    <tr>
            <td><input type="text"></td>
            <td><input type="text"></td>
    </tr>
```

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```html
                              <tr>

                                    <td rowspan="2">ADDRESS</td>

                                    <td>Permenent</td>

                                    <td>Temporary</td>


                              </tr>
                              <tr>

                                    <td><textarea rows="4" cols="35"></textarea></td>

                                    <td><textarea rows="4" cols="35"></textarea></td>

                              </tr>
                              tr>

                                    <td>UPLOAD CV</td>

                                    <td colspan="2"><input type="file" value="file"></td>

                              </tr>
                              <tr>

                                    <td align="center" ><button id="btn1"
                                    >RESET</button></td>

                                    <td align="center" colspan="2"><button
                                    id="btn2">SUBMIT</button></td>

                              </tr>
                        </table>

                  </center>

            </body>

      </html>
```

Output:-

WELCOME TO FRESHERS WORLD!!!

REGISTRATION FORM	
NAME	
AGE	select
PASSWORD	
RETYPE PASSWORD	
SELECT YOUR SECURITY QUESTIONS	☐ Whats your pets name?
	☐ Who is your best friend?
	☐ Whats your favourate color?
	☐ Who is your favourate teacher?
ANSWER OF SECURITY QUESTION	
EMAIL	
LANGUAGE KNOWS	● English ● Malayalam ● Hindi

PHONE NUMBER	Home	Office

Result:- Program executed and output obtained successfully

Program:-

```html
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>String and Math functions</title>
  <style>
    div {
      text-align: center;
      border-bottom: 2px solid black;
      padding-bottom: 2em;

    }


    h2 {
      text-transform: uppercase;
      text-align: center;
      margin-top: 2em;
      width: 100%;
      padding: 5px;
      color: #222324;
      font-family: 'Courier New', Courier, monospace;
      box-shadow: 0 4px 10px 0 rgba(0, 0, 0, 0.2), 0 4px 20px 0 rgba(0, 0, 0, 0.19);
    }


    table,
    tr,
    td,
    th {
      padding: 1em;
```

Program No.6

Predefined functions in a string and math object in javascript

Aim:- To create a HTML page to explain the use of various predefined functions in a string and math object in javascript.

Algorithm:-

Step 1. Create a new HTML file.Program executed and output obtained successfully.

Step 2. Add a title to the page, such as "JavaScript String and Math Functions".

Step 3. Create a new section in the page to explain the String functions.

Add a heading to this section.

Step 4. List the various String functions that you want to explain. For example,

you could include functions such as charAt(), concat(), indexOf(), and replace()

Step 5. For each function, provide a brief description of what it does and how it is used.

You could also include an example of how to use the function in JavaScript code.

Step 6. Create a new section in the page to explain the Math functions.

Add a heading to this section.

Step 7. List the various Math functions that you want to explain. For example,

you could include functions such as abs(), sqrt(), ceil(), and floor().

Step 8. For each function, provide a brief description of what it does and how it is used.

You could also include an example of how to use the function in JavaScript code.

Step 9. Save and preview the HTML file in a web browser to ensure that everything

is working correctly.

Step 10. Optionally, you can add styling and formatting to the page using

CSS to make it more visually appealing.

```css
    }

    table {
      width: 100%;
    }

    th {
      text-align: left;
    }

    .selector {
      padding: .5em;
      background-color: #002607;
      color: white;
      border: none;
      outline: none;
      border-radius: 5px;
      font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode',
Geneva, Verdana, sans-serif;
    }

    li {
      text-align: left;
      margin-top: 5px;
      padding: 10px;
    }

    ul {
```

```html
      background-color: #1a1b1c;

        color: white;


    }
  </style>
</head>


<body>
  <div>
    <h2>String Functions</h2>
    <table>
      <tbody>
        <tr>
          <th>Enter a text</th>
          <td> <input type="text" id="input_srting" name="input_s"></td>
        </tr>
        <tr>
          <th>Search a text</th>
          <td> <input type="text" id="input_search" name="input_search"></td>
        </tr>
        <tr>
          <th>Slice start</th>
          <td><input type="text" id="slice_s" name="slice_s"></td>
        </tr>
        <tr>
          <th>Slice end</th>
          <td><input type="text" id="slice_e" name="slice_e"></td>
        </tr>
        <tr>
          <th>Replace the word</th>
          <td><input type="text" id="replace_f"></td>
```

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```html
          </tr>
           <tr>
             <th>Replace with</th>
             <td><input type="text" id="replace_s"></td>
           </tr>
        </tbody>
     </table>
     <input type="button" value="Generate" class="selector" onclick="string_func()">
     <br><br>
     <ul id="output"> </ul>
</div>


<div>
     <h2>Math Functions</h2>
     <table>
        <tbody>
           <tr>
             <th>Enter a Number</th>
             <td> <input type="text" id="input_num"></td>
           </tr>
           <tr>
             <th>Power term</th>
             <td> <input type="text" id="input_pow"></td>
           </tr>
        </tbody>
     </table>
```

```
<input type="button" value="Generate" class="selector" onclick="math_func()">

    <br><br>

    <ul id="output_math"> </ul>

  </div>



  <script>

    function string_func() {

      let input = document.getElementById('input_srting').value;

      let search = document.getElementById('input_search').value;

      let slice_s = document.getElementById('slice_s').value;

      let slice_e = document.getElementById('slice_e').value;

      let replace_f = document.getElementById('replace_f').value;

      let replace_s = document.getElementById('replace_s').value;



      let li_O = '<li>';

      let li_C = '</li>';

      let list_items;

      list_items = li_O + 'Length of string is  : ' + input.length + li_C;

      list_items += li_O + 'First index of ' + search + ' is ' + input.indexOf(search) + li_C;

      list_items += li_O + 'Last index of ' + search + ' is ' + input.lastIndexOf(search) + li_C;

      list_items += li_O + 'Index with search starting position 5 of ' + search + ' is ' +
input.indexOf(search, 5) + li_C;

      list_items += li_O + 'Search ' + search + ' is ' + input.search(search) + li_C;

      list_items += li_O + 'Slice[' + slice_s + ' : ] is ' + input.slice(slice_s) + li_C;

      list_items += li_O + 'Slice[' + slice_s + ' : ' + slice_e + '] is ' + input.slice(slice_s, slice_e) + li_C;

      list_items += li_O + 'Substring[' + slice_s + ' : ' + slice_e + ']  is ' + input.substring(slice_s,
slice_e) + li_C;

      list_items += li_O + 'Substr[' + slice_s + ' :] is ' + input.substr(slice_s) + li_C;
```

```javascript
    list_items += li_O + 'Substr[' + slice_s + ' :] with length ' + slice_e + ' is ' + input.substr(slice_s,
slice_e) + li_C;

        list_items += li_O + 'replace ' + replace_f + ' with ' + replace_s + ' is ' + input.replace(replace_f,
replace_s) + li_C;

        list_items += li_O + 'Uppercase  :  ' + input.toUpperCase() + li_C;

        list_items += li_O + 'lowercase  :  ' + input.toLowerCase() + li_C;


        document.getElementById('output').innerHTML = (list_items);

    }


    function math_func() {

        let input = document.getElementById('input_num').value;

        let power = document.getElementById('input_pow').value;

        let li_O = '<li>';

        let li_C = '</li>';

        let list_items;


        list_items = li_O + 'Value of PI  : ' + Math.PI + li_C;

        list_items += li_O + 'Round of  '+input+' is : ' + Math.round(input) + li_C;

        list_items += li_O + ''+input+' raise to '+power+' is : ' + Math.pow(input,power) + li_C;

        list_items += li_O + 'Square root of  '+input+' is : ' + Math.sqrt(input) + li_C;

        list_items += li_O + 'Absolute value  of '+input+' is : ' + Math.abs(input) + li_C;

        list_items += li_O + 'Ceil value  of '+input+' is : ' + Math.ceil(input) + li_C;

        list_items += li_O + 'Floor value  of '+input+' is : ' + Math.floor(input) + li_C;

        list_items += li_O + 'Sin value  of '+input+' is : ' + Math.sin(input* Math.PI / 180) + li_C;

        list_items += li_O + 'Cos value  of '+input+' is : ' + Math.cos(input* Math.PI / 180) + li_C;

        list_items += li_O + 'Minimum of (0, 150, 30, 20, -8, -200)   is : ' + Math.min(0, 150, 30, 20, -8,
-200) + li_C;

        list_items += li_O + 'Maximum of (0, 150, 30, 20, -8, -200)   is : ' + Math.max(0, 150, 30, 20, -8,
-200) + li_C;

        list_items += li_O + 'A Random number is : ' + Math.random() + li_C;
```

```
        document.getElementById('output_math').innerHTML = (list_items);

    }

  </script>

</body>


</html>
```

Output:-

STRING FUNCTIONS

Enter a text	hello goodmorning
Search a text	good
Slice start	h
Slice end	g
Replace the word	hello
Replace with	hai

Generate

- Length of string is : 17

- First index of good is 6

- Last index of good is 6

- Index with search starting position 5 of good is 6

MATH FUNCTIONS

Enter a Number	4.6
Power term	2

Generate

- Value of PI : 3.141592653589793

- Round of 4.6 is : 5

- 4.6 raise to 2 is : 21.159999999999997

- Square root of 4.6 is : 2.1447610589527217

- Absolute value of 4.6 is : 4.6

- Ceil value of 4.6 is : 5

- Floor value of 4.6 is : 4

- Sin value of 4.6 is : 0.0801989243288589

Result:- Program executed and output obtained successfully

Program:-

```html
<!DOCTYPE html>
<html lang="eng">
    <head>
        <title>applicationform</title>
        <style>
            body{
                color:white;
            }
            table{
                background-color:grey;
                color:black;
                border:4px solid;
                border-color:black;
                border-collapse: collapse;
            }
            h3 {
    display: inline-block;
    background-color:yellow;
            }
        </style>
        <link rel="stylesheet" href="style.css">
    <head>
    <body>
    <marquee scrollamount="15" style=color:red;>
        <h3>WELCOME TO FRESHERS WORLD!!!</h3>
    </marquee>
        <center>
            <form name="appform" action="" method="POST" onsubmit="return
            appformvalidate()">
```

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Program No.7

Form validation

Aim :- Create a HTML registration form and to validate the form using JavaScript code.

Algorithm :-

Step 1: Start to create an html form with the required fields.

Step 2: Design the html form using CSS.

Step 3: With the help of JavaScript validate the filled data in the form.

Step 4: if name is not satisfies the condition(/[0-9!@#$%^&*]/),pop up the error message

Step 5: if mail id is not satisfies the

condition(/^(?=.*\d)(?=.*[az])(?=.*[@])(?=.*[gmail])(?=.*[.])(?=.*[com])/),pop up the error message

Step 6: if password is not satisfies the

condition(/^(?=.*\d)(?=.*[!@#$%^&*])(?=.*[a-z])(?=.*[A-Z]).{8,}$/;),pop up the error message

Step 7: if mobile number is >10,pop up the error message

Step 8: If the entered data is invalid then an error message is raised when we click on the submit button.

Step 8: If the data is valid then accept the entered data to the database.

Step 9: Stop.

```html
<table border="1" width="70%" cellspacing="1" cellpadding="10"
height="80%">

<tr>

        <td colspan="3" align="center"><b>REGISTRATION
        FORM</b></td>

</tr>

<tr>

        <td>NAME</td>

        <td colspan="2"><input type="text"  name="name1"></td>


</tr>

<tr>

        <td>AGE</td>

        <td colspan="2"><input type="text" name="age"
        size="3"></td>

</tr>

<tr>

        <td>PASSWORD</td>

        <td colspan="2"><input type="password"
        name="pass"></td>


</tr>

<tr>

        <td>RETYPE PASSWORD</td>

        <td colspan="2"><input type="password"
        name="npass"></td>

</tr>

<tr>

        <td rowspan="4">SELECT YOUR SECURITY QUESTIONS</td>

        <td colspan="2" required>

                <input type="checkbox" id="c1"<label
                for="c1">Whats your pets name?</label><br>
```

```html
                </td>
        </tr>
        <tr>
                <td colspan="2">
                        <input type="checkbox" id="c2" <label for="c2"
                        >Who is your best friend?</label><br>
                </td>
        </tr>
        <tr>
                <td colspan="2">
                        <input type="checkbox" id="c3" <label
                        for="c3">Whats your favourate color?</label><br>
                </td>
        </tr>
        <tr>
                <td colspan="2">
                        <input type="checkbox" id="c4" <label
                        for="c4">Who is your favourate
                        teacher?</label><br>
                </td>
        </tr>
        <tr>
        <td>ANSWER OF SECURITY QUESTION</td>
        <td colspan="2"><input type="text" id="s1"></td>
        </tr>
        <tr>
        <td>EMAIL</td>
        <td colspan="2"><input type="text" name="m1"></td>
        </tr>
        <tr>
        <td>LANGUAGE KNOWS</td>
        <td colspan="2" required>
```

```
                    <input type="radio"  name="r" id="r1"<label
                    for="r1">English</label>

                    <input type="radio"  name="r" id="r2"<label
                    for="r2">Malayalam</label>

                    <input type="radio"  name="r" id="r3"<label
                    for="r3">Hindi</label>

            </td>

    </tr>

    <tr>

            <td rowspan="2">PHONE NUMBER</td>

            <td>Home</td>

            <td>Office</td>


    </tr>

    <tr>

            <td><input type="text" name="hp"></td>

            <td><input type="text" name="op"></td>

    </tr>

    <tr>

            <td rowspan="2">ADDRESS</td>

            <td>Permenent</td>

            <td>Temporary</td>


    </tr>

    <tr>

            <td><textarea rows="4" cols="35"
            name="add1"></textarea></td>

            <td><textarea rows="4" cols="35"
            name="add2"></textarea></td>

    </tr>

    <tr>

            <td>UPLOAD CV</td>
```

```html
                              <td colspan="2" required><input type="file" value="file"
                              id="cv"></td>
                      </tr>
                      <tr>
                              <td align="center"><input type="submit"id="R"
                              value="RESET"></td>
                              <td align="center" colspan="2"><input type="submit"id="S"
                              value="SUBMIT"></td>
                      </tr>
              </table>
      </form>
      </center>
      <script>
              function appformvalidate()
              {
                      var name=document.appform.name1.value;
                      var a=document.appform.age.value;
                      var mail=document.appform.m1.value;
                      var password=document.appform.pass.value;
                      var n_password=document.appform.npass.value;
                      var h_phno=document.appform.hp.value;
                      var o_phno=document.appform.op.value;
                      var p_address=document.appform.add1.value;
                      var t_address=document.appform.add2.value;
                      var n_validate= /[0-9!@#$%^&*]/
                      var a_validate=/[(a-z)(A-Z)!@#$%^&*]/
      var m_validate = /^(?=.*\d)(?=.*[a-z])(?=.*[@])(?=.*[gmail])(?=.*[.])(?=.*[com])/
      var p_validate= /^(?=.*\d)(?=.*[!@#$%^&*])(?=.*[a-z])(?=.*[A-Z]).{8,}$/;
                      if (name=="")
                      {
                              alert("Enter First Name !!");
```

```javascript
                document.appform.name1.focus();

                return false;

        }

        else if (n_validate.test(name))

        {

                alert("Enter valid name !!");

                document.appform.name1.focus();

                return false;

        }

        if (a=="")

        {

                alert("Enter the age !!");

                document.appform.age.focus();

                return false;

        }

        else if (a_validate.test(a))

        {

                alert("Enter number only!!");

                document.appform.age.focus();

                return false;

        }

        if (password=="")

        {

                alert("please enter the password!!");

                document.appform.pass.focus();

                return false;

        }

        else if (password.length<8||!p_validate.test(password))

        {

                alert("Enter minimum 8 digit Password"+'\n'+"must
                containsany of them @#$%^&*");
```

```
                    document.appform.pass.focus();

                    return false;

        }

        if (n_password=="")

        {

                    alert("please rewrite the password");

                    document.appform.npass.focus();

                    return false;

        }

        else if (n_password.length<8||!p_validate.test(n_password))

        {

    alert("Enter minimum 8 digit Password"+'\n'+"whichcontains @#$%^&*");

                    document.appform.npass.focus();

                    return false;

        }

        else if(password!=n_password)

        {

                    alert("password mismatch!!")

                    document.appform.npass.focus();

                    return false;

        }

        if (mail=="")

        {

                    alert("Enter email!!");

                    document.appform.m1.focus();

                    return false;

        }

        else if(m_validate.test(mail))

        {

                    alert("Enter Valid mail id !!");
```

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```
                document.appform.m1.focus();

                return false;

        }

        if (h_phno=="")

        {

                alert("Enter home Mobile number");

                document.appform.h_phno.focus();

                return false;

        }

        else if (isNaN(h_phno))

        {

                alert("Enter valid Mobile number");

                document.appform.h_phno.focus();

                return false;

        }

        else if (h_phno.length != 10)

        {

                alert("Enter Mobile number with 10 digit");

                document.appform.h_phno.focus();

                return false;

        }

        if (o_phno=="")

        {

                alert("Enter office Mobile number");

                document.appform.o_phno.focus();

                return false;

        }

        else if (isNaN(o_phno))

        {

                alert("Enter valid Mobile number");

                document.appform.o_phno.focus();
```

```
                document.appform.o_phno.focus();
```

```
                                return false;

                        }

                        else if (o_phno.length != 10)

                        {

                                alert("Enter Mobile number with 10 digit");

                                document.appform.o_phno.focus();

                                return false;

                        }

                        if (p_address=="")

                        {

                                alert("address field cannnot be blank !!");

                                document.appform.add1.focus();

                                return false;

                        }

                        if (t_address=="")

                        {

                                alert("address field cannnot be blank !!");

                                document.appform.add2.focus();

                                return false;

                        }

                        return true;

                }

        </script>

    </body>

</html>
```

Output:-

AGE		
PASSWORD		
RETYPE PASSWORD		
SELECT YOUR SECURITY QUESTIONS	☐ Whats your pets name?	
	☐ Who is your best friend?	
	☐ Whats your favourate color?	
	☐ Who is your favourate teacher?	
ANSWER OF SECURITY QUESTION		
EMAIL		
LANGUAGE KNOWS	○ English ○ Malayalam ○ Hindi	
PHONE NUMBER	Home	Office
ADDRESS	Permenent	Temporary
UPLOAD CV	Choose File No file chosen	
RESET		SUBMIT

This page says

Enter the age !!

OK

AGE		
PASSWORD		
RETYPE PASSWORD		
SELECT YOUR SECURITY QUESTIONS	☐ Whats your pets name?	
	☐ Who is your best friend?	
	☐ Whats your favourate color?	
	☐ Who is your favourate teacher?	
ANSWER OF SECURITY QUESTION		
EMAIL	erter	
LANGUAGE KNOWS	○ English ○ Malayalam ○ Hindi	
PHONE NUMBER	Home	Office
ADDRESS	Permenent	Temporary
UPLOAD CV	Choose File No file chosen	
RESET		SUBMIT

This page says

please enter the password!!

OK

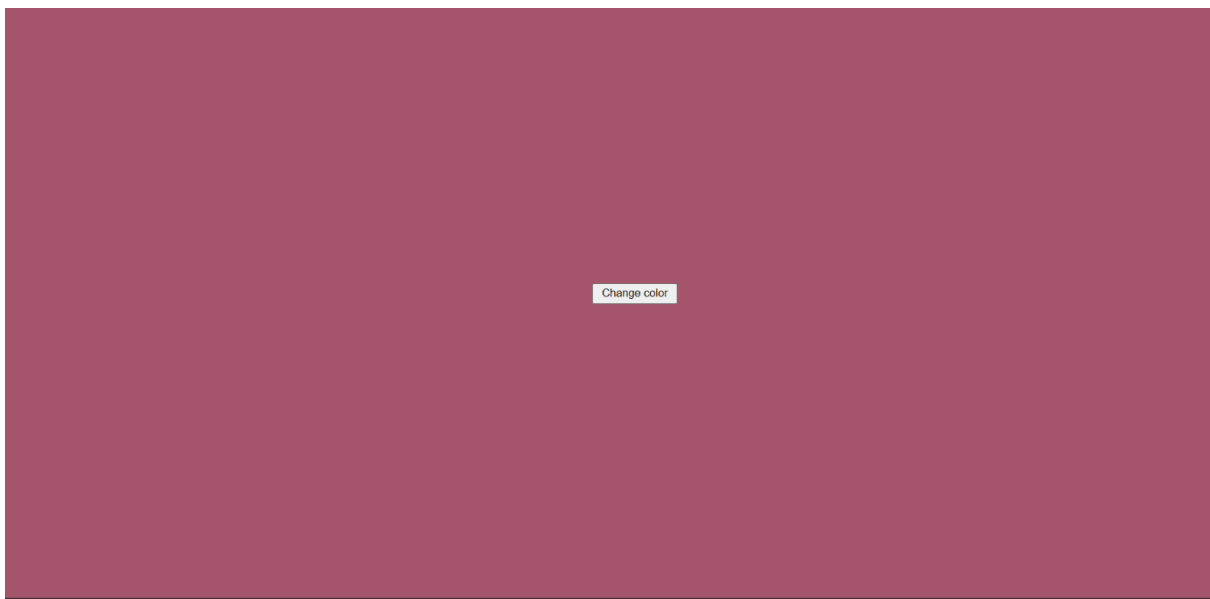**Result:-** Program executed and output obtained successfully

Program:-

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
        div{
            align-content: center;
            margin-left:50%;
            margin-top:350px;
        }
        #btn{
            padding:3px 10px;
        }

    </style>
</head>
<body>
    <div>
        <input id="btn" type="button" value="Change color">
    </div>
    <script>
        document.getElementById("btn").addEventListener("click",change);
        function change()
        {
            var color='#'+Math.floor(Math.random()*100000).toString(16);
            document.body.style.backgroundColor=color;
        }
    </script>
```

Program No.8

Background change using javascript

Aim: To create a HTML page to change the background color for every click of a button using JavaScript Event Handling.

Algorithm:

Step 1 : create a html file.

Step 2 : Inside head tag, declare style tag.

Step 2.1 : create "container" named class. Set width and height100%, text align property: center and displaystyle as grid.

Step 2.2 : create another style class using button id "#btn". Set margin property : auto , padding : 1rem , border-thickness : 3pxand color : black. Step 2.3: Close style tag.

Step 3 : Inside body tag open a div tag , and assign classname ".container" as the newly created div's class.

Step 4: Inside the div create a self closing input tag set id= "btn", type= "button",value = "Change Backgorund".

Step 5 : Close div tag, open a script tag.

Step 5.1 : Inside script tag create a addEventlistener for the button to invoke the Function "colorChange()", when the button is clicked.

Step 5.2 : Declare the function colorChange().

Step 5.3 : Declare a variable name "color" to store the hexadecimal color code generated using math.random(), math.floor() and toString().

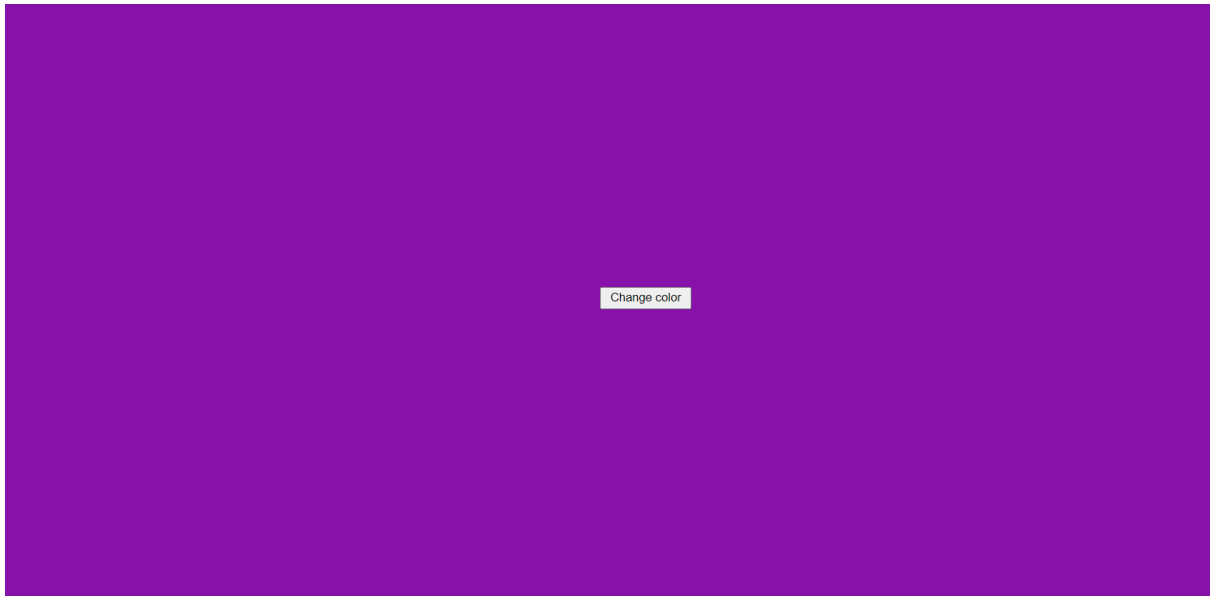Step 5.4: Set the body background style using color variable value.

Step 6 : Close the script tag.

Step 7: Stop.

</body>

</html>

Output:-

Output:-

Result:- Program executed and output obtained successfully

Program:-

```html
<html>
  <head>
    <title>changeimage</title>
    <style>
     #d1 {
       width: 100%;
       height: 100%;
     }
     #d2 {
       box-shadow: 5px 5px 5px rgba(0, 0, 0, 0.2);
       margin: 4em;
       margin-left:250px;
       height: calc(100% - 5em);
       width: calc(100% - 30em);
     }
     img{
       background-repeat: no-repeat;
       width: 100%;
       height:50%;
     }
     #h1,#h2{
       text-align: center;
     }
     #h2{
        display: none;
     }
    </style>
  </head>
  <body>
    <div id="d1">
```

Program No.9

Javascript Event Handling

Aim :- To create a HTML page to display a new image and text when the mouse comes over the existing content in the page using JavaScript Event Handling .

Algorithm :-

Step 1. Create an HTML file with the content you want to display, such as an image and text.

Step 2. Assign a unique ID to the HTML element containing the content.

Step 3. In the JavaScript code, add an event listener to the HTML element with the ID to

trigger aProgram executed and output obtained successfully.function when the

mouse hovers over the element.

Step 4. In the function, change the source of the image and the text of theProgram

executed and output obtained successfully. element to the newcontent you want to display.

```html
    <div id="d2">
        <img id="m1"src="porsche1.jpg">
        <div id="d3">
          <h1 id="h1">Lets Drive....</h1>
          <h1 id="h2">In The Night....</h1>
        </div>
      </div>
    </div>
    <script>
      document.getElementById("d2").addEventListener("mouseover",fn1);
      document.getElementById("d2").addEventListener("mouseout",fn2);
      function fn1()
      {
        document.getElementById("m1").src="porsche2.jpg";
        document.getElementById("h1").style.display="none";
        document.getElementById("h2").style.display="block";
      }
      function fn2()
      {
        document.getElementById("m1").src="porsche1.jpg";
        document.getElementById("h1").style.display="block";
        document.getElementById("h2").style.display="none";
      }
    </script>
  </body>
</html>
```

Output:-

Lets Drive....

In The Night....

Result:- Program executed and output obtained successfully

Program:-

```
<!DOCTYPE html>

<html>

        <head>

        <meta charset="UTF-8">

        <title>Itsourcecode Examination Application</title>

        <style type="text/css">

        div#test{ border:#000 1px solid; padding:10px 40px 40px 40px; width:640px; margin:auto;

        border-radius:12px; background-color: blue; color: white;}

        </style>

        <center><h1 style="background-color: blue; color: white;">ONLINE
EXAMINATION</h1></center>

<script >

var pos = 0, test, test_status, questions, choice, choices, chA, chB, chC, correct = 0;

var questions = [

        ["Who created python flask?", "Armin Ronacher", "Jude Suares", "Adrian Mercurio", "A" ],

                ["Who created javascript?", "Brendan Eich", "Kimmy Matillano", "Saxon Ong", "A"],


                ["Who created java?", "James Gosling", "Princely Ceasar", "July King Kadayuna",
"A"],


                ["Who created c# language?", "Microsoft Corporation", "Google Company", "You
Tube Corporation", "A"],


                ["Who created php?", "Rasmus Lerdorf", "Grace Patulada", "Nikko Curaza", "A"],


                ["Who created itsourcecode.com?", "Charlotte Villanueva", "Joken Villanueva",
"Niko Embang", "B"],


                ["Who created laravel?", "Boknoi Villaflor", "Taylor Otwell", "Ryan Manaay", "B"],
```

Program No.10

Online Examination

Aim :- Create a HTML page to show online exam using Javascript

Algorithm:-

Step 1. Open a text editor or HTML editor.

Step 2. Add the opening and closing html tags.

Step 3. Add the head section within the html tags.

Step 4. Within the head section ,add a title tag to give the page title.

Step 5. Use the type attribute with a value of style,the type attribute with a value of text/css.

Step 6. Add a style tag to include the internal style sheet in the head section.

Step 7. Inside script tag include the questions and the choices to be given.

Step 8. Inside the script tag create a function renderQuestion() to check and print the correct no of questions answered.

Step 9. Assigns the position to the choices using [pos][i].

Step 10. On Clicking the button the check answer() will be implied.

Step 11. Create the function check answer() to store the value to choice variable till the maximum length and correct and position variables will be incremented.

Step 12. Create an addEventListener and assign the parameters.

Step 13. Close the script tag.

Step 14. Open the body tag and set id="test_status" and id="test" which is to be performed in the function renderQuestion().

Step 15. Close the body tag and html tag.

```javascript
        ["Who created database?", "Edgar Frank Codd", "Paul Niar", "Given Bariacto", "A"],

                ["Who created c++ language?", "Kirk Eriman", "Bjarne Stroustrup", "Jomhel Dulla",
"B"],

                ["Who created c language?", "Dennis Ritchie", "Daniel Bandiola", "Carlan Pellobello",
"A"]

                ];
function _(x){

        return document.getElementById(x);

}

function renderQuestion(){

        test = _("test");

if(pos >= questions.length){

                        test.innerHTML = "<h3>You got "+correct+" of
"+questions.length+"questions correct</h3>";

                        _("test_status").innerHTML = "Exam Completed";

                        pos = 0;

                        correct =0;

                        return false;

                        }

        _("test_status").innerHTML = "Question "+(pos+1)+" of "+questions.length;

        question = questions[pos][0];

        chA = questions[pos][1];

        chB = questions[pos][2];

        chC = questions[pos][3];

        test.innerHTML = "<h3>"+question+"</h3>";

        test.innerHTML += "<input type='radio' name='choices' value='A'> "+chA+"<br>";

        test.innerHTML += "<input type='radio' name='choices' value='B'> "+chB+"<br>";

        test.innerHTML += "<input type='radio' name='choices' value='C'> "+chC+"<br><br>";

        test.innerHTML += "<button onclick='checkAnswer()'>Submit Answer</button>";

}
```

```
function checkAnswer(){

        choices = document.getElementsByName("choices");

        for(var i=0; i<choices.length; i++){

        if(choices[i].checked){

        choice = choices[i].value;

        }

}

if (choice == questions[pos][4]){

correct++;

}

pos++;

renderQuestion();

}

window.addEventListener("load", renderQuestion, false);

</script>


</head>

<body>

<h2 id="test_status" style="text-align:center;"></h2>

<div id="test"></div>

</body>

</html>
```

Output:-

ONLINE EXAMINATION

Question 1 of 10

Who created python flask?

- Armin Ronacher
- Jude Suares
- Adrian Mercurio

Submit Answer

ONLINE EXAMINATION

Exam Completed

You got 2 of 10questions correct

Result:- Program executed and output obtained successfully

Program:-

```html
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Form Validation</title>
  </head>
  <style>
  table{
    background-color: white;
    margin-left: auto;
    margin-right: auto;
    margin-top:1em;
    padding:1em;
    box-shadow: 0 4px 10px 0 rgba(0,0,0,0.2), 0 4px 20px 0 rgba(0,0,0,0.19);
  }
  tr,td,th{
    padding:1em;
    text-align: left;
  }
  .center th{
    text-align: center;
  }
  h2{
    text-align: center;
    margin-top: 2em;
    background-color:black;
    color: white;
  }
  </style>
  <body>
```

Program No.11

Form validation using PHP

Aim:-To validate the web form using PHP.

Algorithm:-

Step 1.1:Design an HTML form with the following input fields:

> Name
>
> Email
>
> Mobile Number
>
> Username
>
> Password

Step 2.1: Establish a Database Connection.

Step 2.2:Use the following code to connect the form to the database:

> $con = mysqli_connect("localhost", "root", "", "sampledb");

Step 2.3:Ensure the connection is successful. If not, handle the error.

Step 3.1: Validate User Input

Step 3.2:Name Validation

> a.Use the regular expression preg_match("/^[a-zA-Z]*$/", $name)   to ensure the name contains only letters and spaces.
>
> b. If the validation fails, display a popup message: "Enter a valid name!"

Step 3.3:Email Validation:

> a.Use filter_var($email, FILTER_VALIDATE_EMAIL) to validate the email format.
>
> b.If the validation fails, display a popup message: "Enter a valid email address!"

Step3.4:Mobile Number Validation:

> a.Use the regular expression preg_match('/^[0-9]{10}+$/', $_POST['mob'])
>
> to ensure the mobile number contains exactly 10 digits.
>
> b. If the validation fails, display a popup message: "Enter a valid mobile number!"
>
> c. If the validation fails, display a popup message: "Enter a valid mobile number!"

```html
<h2>FORM VALIDATION</h2>
   <form name="form" action="#" method="POST">
   <table>
     <tr>
       <th>Name</th>
       <td><input type="text" name="fname"> </td>
     </tr>
     <tr>
       <th>Email</th>
       <td><input type="email" name="email"> </td>
     </tr>
     <tr>
       <th>Mob NO </th>
       <td><input type="tel" name="mob"> </td>
     </tr>
     <tr>
       <th>Username </th>
       <td><input type="text" name="user"> </td>
     </tr>
     <tr>
       <th>Password </th>
       <td><input type="password" name="password"> </td>
     </tr>
     <tr class="center">
       <th colspan="2"><input type="submit" value="submit" name="submit"></th>
     </tr>
   </table>
   </form>
   <?php
     $con = Mysqli_Connect("localhost","root","","sampledb");
```

if(isset($_POST['submit']))

step 3.5:Password Validation:

    a. Check that the password meets the following criteria:

    b.Contains at least one uppercase letter: preg_match("#[A-Z]+#", $password)

    c.Contains at least one lowercase letter: preg_match("#[a-z]+#", $password)

    If the validation fails, display a popup message: "Enter a valid password with at least one uppercase and one lowercase letter!"

Step 4.1: Store Data in the Database

Step 4.2:If all validations pass, prepare an SQL query to insert the data into the database:

    $query = "INSERT INTO register(name, mail, mobile, password, user)

        VALUES('$name', '$email', '$mobile', '$password', '$user')";

Step 4.3:Execute the query using mysqli_query($con, $query).

Step 5.1: Handle Successful Submission

Step 5.2:If the data is inserted successfully:

    Display a popup message: "Successfully submitted!"

Step 6.1: Handle Errors

Step 6.2:If the query fails or an error occurs during validation or submission:

    Display an error message describing the issue.

Step 7: apply the css styles to attract the web form.

Step 8: End

```php
{
    $name = $_POST['fname'];

    $email = $_POST['email'];

    $mobile = $_POST['mob'];

    $user = $_POST['user'];

    $password = $_POST['password'];

    if($_POST['fname'] == "")

    {

        echo "<script>alert('Enter First Name !!')</script>";

    }

    else if(!preg_match("/^[a-zA-Z ]*$/",$name))

    {

        echo "<script>alert('Enter Your Name !!')</script>";

    }

    else if($_POST['email'] == "")

    {

        echo "<script>alert('Enter Email !!')</script>";

    }

    else if(!preg_match('/^[0-9]{10}+$/', $_POST['mob']))

    {

        echo "<script>alert('Enter Valid Mobile Number !!')</script>";

    }

    else if($_POST['user'] == "")

    {

        echo "<script>alert('Enter User Name !!')</script>";

    }

    else if($_POST['password'] == "")

    {

        echo "<script>alert('Enter Password !!')</script>";

    }
```

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```php
else if (strlen($_POST["password"]) < 8)
    {
        echo "<script>alert('Your Password Must Contain At Least 8 Characters!')</script>";
    }
    else if(!preg_match("#[0-9]+#",$password))
    {
        echo "<script>alert('Your Password Must Contain At Least 1 Number!')</script>";
    }
    else if(!preg_match("#[A-Z]+#",$password))
    {
        echo "<script>alert('Your Password Must Contain At Least 1 Capital Letter!')</script>";
    }
    else if(!preg_match("#[a-z]+#",$password))
    {
        echo "<script>alert('Your Password Must Contain At Least 1 LowercaseLetter!')</script>";
    }
    else
    {
        $query = "insert into
register(name,mail,mobile,password,user)values('$name','$email','$mobile','$password','$user')";
        if(mysqli_query($con,$query))
        {
            echo "<script>alert('Successfully submitted')</script>";
        }
        else
        {
            echo "error".$query.mysqli_error($con);
        }
    }
}
?>
```

```
    </body>

</html>
```
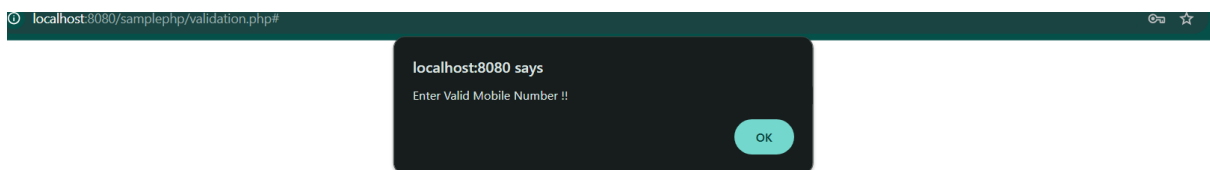
Output:-

FORM VALIDATION

Name	george martin
Email	george@gmail.com
Mob NO	7736480916
Username	george
Password	●●●●●●●●●●●

submit

localhost:8080/samplephp/validation.php#

localhost:8080 says

Successfully submitted

OK

Result:- Program executed and output obtained successfully

Program:-

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>BOOK DETAILS</h1>
    <table border="1">
        <tr>
            <th>ID</th>
            <th>NAME</th>
            <th>AUTHOR</th>
            <th>EDITION</th>
            <th>PUBLISHER</th>
        </tr>
<?php
$host="localhost";
$username="root";
$password="";
$dbname="sampledb";
$con = Mysqli_Connect("localhost","root","","sampledb");
$query="SELECT * FROM books";
$res=mysqli_query($con,$query);
while($row=mysqli_fetch_row($res))
{
    echo"<tr>";
    echo"<td>$row[0]</td>";
    echo"<td>$row[1]</td>";
```

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Program No.12

Display table contents

Aim:PHP program to retrieve the database contents and display it into a table form.

Algorithm:-

Step 1.1: Create the HTML Structure.

Step 1.2:Design a webpage using HTML with the following

A table with the following column headers:

ID

Name

Author

Edition

Publisher

Step 2.1: Establish a Database Connection

Step 2.2:Use the following details to connect to the database:

$con = mysqli_connect("localhost", "root", "", "sampledb")

Step 2.3:Ensure the connection is successful. If not, handle the error.

Step 3.1: Write the SQL Query

Step 3.2:Prepare an SQL query to fetch all book records from the books table:

SELECT * FROM books.

Step 4.1: Display Book Details

Step 4.2:For each record, dynamically create a new row in the HTML table and populate the columns with data:

Step 5.1: Complete the Table

Step 5.2:End the table structure after looping through all records.

Step 6.1: End

```
    echo"<td>$row[2]</td>";

    echo"<td>$row[3]</td>";

    echo"<td>$row[4]</td>";

    echo"</tr>";

}

?>

</table>

</body>

</html>
```

Output:-

Result:- Program executed and output obtained successfully

Program:-

home.php

```php
<?php
  session_start();
  if(isset($_SESSION['username']))
  {
    echo "hai"." ".$_SESSION['username'];
  }
  else
  {
    echo "Error occured";
  }
?>
```

login.php

```php
 <?php
session_start();
?>
<html>
  <head>
    <title>login page</title>
    <style>
      td{
        padding:8px;
      }
      input{
        padding:5px;
      }
 </style>
 </head>
```

Program No.13

Login form

Aim: To create the Login form using PHP and session variable

Algorithm:-

Step 1.1: Start the Session

Step 1.2.Start the session in PHP using session_start().

Step 2.1: Design the Login Form

Step 2.2.Create an HTML form for user login

        User Name

        Password

Step 2.3:Use the POST method to submit the form data

Step 3.1: Establish Database Connection

Step 3.2:Include the database connection file using:

    require "connection.php".

Step 4.1: Validate User Credentials

Step 4.2:Write an SQL query to fetch user details:

    $query=SELECT * FROM logintbl WHERE name='$user' AND password='$passcode'.

Step 4.3:Handle query execution errors:

    If $login_result is false, display an error message: "login error".

Step 5.1: Check Login Success

Step 5.2:Redirect the user to the home.php form.

Step 5.3:If no rows are found

    Display an alert message: "there is no user".

Step 7: End

```html
    <body>
      <center>
        <form action="#" method="POST">
          <table>
            <tbody>
              <tr>
                <td>User Name: <td>
                <td><input type="text" name="uname"></td>
              </tr>
              <tr>
                <td>Password : <td>
                <td><input type="password" name="passcode"></td>
              </tr>
              <tr>
                <td colspan="2"><input type="submit" name="login" value="login" id="btn"></td>
              </tr>
            </tbody>
          </table>
        </form>
      </center>
  </body>
</html>
<?php
require "connection.php";
if(isset($_POST['login']))
{
  $user = $_POST['uname'];
  $passcode = $_POST['passcode'];
  $login_query = "select * from logintbl where name='$user'and password='$passcode'";
  $login_result = mysqli_query($con,$login_query);
  $login_values = mysqli_fetch_array($login_result);
```

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```php
    if(!$login_result)
    {
        echo "login error";
    }
    $login_rows = mysqli_num_rows($login_result);
    if($login_rows == 1)
    {
        $_SESSION['username'] = $login_values[0];
        header("location:home.php");
    }
    else
    {
        echo "<script>alert('there is no user')</script>";
    }
}
?>
```

connection.php

```php
<?php
    $con = mysqli_connect("localhost","root","","sampledb");
    if(!$con)
    {
        echo "<script>alert(\"Connection Error!\");</script>";
    }
?>
```

Output:-

User Name	
password	

login

localhost:8080 says

there is no user

OK

localhost:8080/samplephp/home.php

hai sachin

Result:- Program executed and output obtained successfully