

MGM's
Jawaharlal Nehru Engineering College

Laboratory Manual

ON

Web Technology Lab

For

First Year Students
Dept : Master Of Computer Application

FORWARD

It is my great pleasure to present this laboratory manual for First year MCA Students for the subject of WEB TECHNOLOGY LAB keeping in view the vast coverage required for developing static web site using HTML,CSS,HTML5,JavaScript & XML with examples & mini project

As a student, many of you may be wondering with some of the questions in your mind regarding the subject and exactly what has been tried is to answer through this manual.

As you may be aware that MGM has already been awarded with ISO 9000 certification and it is our endure to technically equip our students taking the advantage of the procedural aspects of ISO 9000 Certification.

Faculty members are also advised that covering these aspects in initial stage itself, will greatly relived them in future as much of the load will be taken care by the enthusiasm energies of the students once they are conceptually clear.

Dr. Sudhir Deshmukh
Principal

LABORATORY MANNUAL CONTENTS

This manual is intended for the First year students of MCA branch in the subject of WTL LAB. This manual typically contains practical/Lab Sessions related web site designing covering various aspects such as HTML,HTML5,CSS, XML,JAVA SCRIPT to enhance Static web site development understanding.

Although, as per the syllabus, HTML & XML programs are prescribed, we have made the efforts to cover various Tags useful for web page designing

Students are advised to thoroughly go through this manual rather than only topics mentioned in the syllabus as practical aspects are the key to understanding and conceptual visualization of theoretical aspects covered in the books.

Good Luck for your Enjoyable Laboratory Sessions

A. R. Tungar
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DOs and DON'Ts in Laboratory:

1. Make entry in the Log Book as soon as you enter the Laboratory.
2. All the students should sit according to their roll numbers starting from their left to right.
3. All the students are supposed to enter the terminal number in the log book.
4. Do not change the terminal on which you are working.
5. All the students are expected to get at least the algorithm of the program/concept to be implemented.
6. Strictly observe the instructions given by the teacher/Lab Instructor.

Instruction for Laboratory Teachers::

1. Submission related to whatever lab work has been completed should be done during the next lab session. The immediate arrangements for printouts related to submission on the day of practical assignments.
2. Students should be taught for taking the printouts under the observation of lab teacher.
3. The promptness of submission should be encouraged by way of marking and evaluation patterns that will benefit the sincere students.

Lab Exercise 1 (2 Hours)

Title : Study Of HTML & Internet Terminology

Objective : To understand HTML Structure

To understand Client –Server architecture

To understand fundamentals concepts for developing web pages

To Understand Domain Name System

To Understand Client side scripting & server side scripting

Tools: Notepad Editor and Web Browser like Internet Explorer or Mozilla Firefox.

Standard Procedure for Creating and View an HTML document:

- Use a text editor such as Notepad to write the document.
- Save the file as filename.html in a particular folder on PC. This is called the Document Source.
- Open the file that you have saved in your folder .
- Double click the HTML document ,then it can view in any browser Off-Line.
- Your HTML page should now appear just like any other Web page in browser.
- You may now switch back and forth between the Source and the HTML Document
 - switch to Notepad with the Document Source
 - make changes .
 - save the document again.
 - switch back to browser .
 - click on RELOAD and view the new HTML Document .
 - switch to Notepad with the Document Source.

Lab Exercise 2 (2 Hours)

Title: Study Of Basic HTML Designing Tags

Objectives: Design HTML page using text formatting elements & Physical/Logical tags

Source Code :

```
<HTML> <HEAD>
```

```
<TITLE> MGM’S J.N.E.C., Aurangabad</TITLE>
```

```
</Head>
```

```
<body text="#660000" bgcolor="yellow" background="..Jellyfish.jpg">
```

Illustration of body tag with its properties

```
<!-- This is a comment -->
```

```
<pre>
```

This text uses pre tag and preserves nextline and spaces </pre>

<p>This text doesnt uses pre tag so doesnt preserves nextline and spaces.. everything will be printed in the same line</p>

 WELCOME- Example of font tag

<h1 align="center"> This is h1 tag text with center aligned </ h1>

<h2 align="left"> This is h2 tag text with left aligned </h2>

<h3 align="right">This is h3 tag text with right aligned </h3>

<h4> This is h4 tag text without alignment</h4>

<h5> This is h5 tag Text wit hout alignment </h5>

<h6> This is h6 tag text without alignment </h6>

<center>

<h1 align= "center"> To illustrate text formatting tags </h1>

<hr color="red">

<P> <marquee behavior="scroll" direction="right"> This is an alternate Marquee text</marquee>

<p> This is <i> italized </i> </p>

<p> This is <u> underlined </u> </p>

<p> This is bold </p>

<p> This is emphasized </p>

<p>This is Strong Text </p>

<p> This is <s> striked text </s> </p>

<p> This is <code> computer code </code> </p>

<p> This is ^{superscript} code </p>

<p> This is _{subscript} code </p>

<p> This is <big> big text </big> </p>

<p> This is <small> small text </small> </p>

</center> </body>

</html>

OutPut:

Illustration of body tag with its properties

This text uses
pre tag and preserves
nextline and spaces

This text doesn't use pre tag so doesn't preserve nextline and spaces... everything will be printed in the same line

WELCOME- Example of font tag

This is h1 tag text with center aligned

This is h2 tag text with left aligned

This is h3 tag text with right aligned

This is h4 tag text without alignment

This is h5 tag Text without alignment

This is h6 tag text without alignment

To illustrate text formatting tags

This is an alternate Marquee text

This is *italicized*

This is underlined

This is **bold**

This is *emphasized*

This is **Strong Text**

This is ~~striked-text~~

This is computer code

This is ^{superscript} code

This is _{subscript} code

This is big text

This is small text

Lab Exercise 3 (2 Hours)

Title: Study of List Tag

Objectives: Design a page for shopping list of vegetables & fruits using its different types

Source Code:

```
<html>      <body>
```

```
<h3 align= "left" style="color:red">To illustrate ORDER ,UNORDER and NESTED list tags</h3>
```

```
<h5> Order List</h5>
```

```
<h4>Numbered Fruits list:</h4>
```

```
<ol>
```

```
<li>Apples</li>
```

```
<li>Bananas</li>
```

```
<li>Lemons</li>
```

```
</ol>
```

```
<h4>Uppercase Letters Vegitable list:</h4>
```

```
<ol type="A">
```

```
<li>Brinjals</li>
```

```
<li>Carrots</li>
```

```
<li>Cabbage</li>
```


<h4>Roman numbers Shopping list:</h4>

<ol type="I">

T Shirt

Jeans

 Sandle

<h5> Unorder List</h5>

<h4>Square bullets list:</h4>

<ul type="square">

Brinjals

Carrots

Cabbage

<h4>Disc bullets list:</h4>

<ul type="disc">

T Shirt

Jeans

 Sandle

<h4> An ordered nested List : </h4>

 Coffee

 Tea

<ol type="a" start="4">

 Black tea

 Green tea

<li value="1"> Ice tea

<ol type="i" >

 China

 Africa

 Milk

 <h4> A Definition List: </h4>

<dl> <dt> Bangalore </dt> <dd> -Capital City of Karnataka </dd>

<dt> Mumbai</dt>

<dd> -Capital city of Maharashtra </dd>

</dl> </body>

</html>

OutPut:

To illustrate ORDER ,UNORDER and NESTED list tags

Order List

Numbered Fruits list:

1. Apples
2. Bananas
3. Lemons

Uppercase Letters Vegitable list:

- A. Brinjals
- B. Carrots
- C. Cabbage

Roman numbers Shopping list:

- I. T Shirt
- II. Jeans
- III. Sandle

Unorder List

Square bullets list:

- Brinjals
- Carrots
- Cabbage

Disc bullets list:

- T Shirt
- Jeans
- Sandle

An ordered nested List :

1. Coffee
2. Tea
 - d. Black tea
 - e. Green tea
 - a. Ice tea
 - i. China
 - ii. Africa
3. Milk

A Definition List:

- Bangalore
-Capital City of Karnataka
- Mumbai
-Capital city of Maharashtra

Lab Exercise 4 (2 Hours)

Title: Study Of Anchor Tag & Link Tag

Objectives: Create Hyperlinks in home page to show student information about educational details, Hobbies, Achievements etc

Source Code:

```
<html>
```

```
<head>
```

```
<title> Link Tag </title>
```

```
</head>
```

```
<body alink="yellow" vlink="orange" link="green">
```

```
<h3 align="center" style="color:red">To illustrate Anchor & link Tags</h3>
```

```
<h4 align="center" style="color:Purple"> Students Information</h4> <hr>
```

```
<h4>Text as a hyperlink to another page :</h4>
```

```
<a href="edu.html "> Education Details</a>
```

</br>Hobbies

</br>Achievements

</p> <hr> <h4>List Item as a link/hyperlink :</h4>

 Apple

Orange

Water Melon

 <hr>

<p> <h4>Linking within a same page </h4>

See also Chapter 8 - Binary tree </p>

<h2>Chapter 1</h2>

<p>This chapter explains Pointers</p>

<h2>Chapter 2</h2> <p>This chapter explains variables</p>

<h2>Chapter 3</h2> <p>This chapter explains operator</p>

<h2>Chapter 4</h2> <p>This chapter explains structure</p>

<h2>Chapter 5</h2> <p>This chapter explains arrays</p>

<h2>Chapter 6</h2><p>This chapter explains linked list</p>

<h2>Chapter 7</h2> <p>This chapter explains expressions</p>

<h2>Chapter 8</h2>

<p>This chapter explains Binary Trees</p>

<h2>Chapter 9</h2> <p>This chapter explains Unordered trees</p>

<h2>Chapter 10</h2> <p>This chapter explains Statements</p>

<h2>Chapter 11</h2> <p>This chapter explains searching</p>

<h2>Chapter 12</h2> <p>This chapter explains sorting</p>

<h2>Chapter 13</h2> <p>This chapter explains Binary sort</p>

<h2>Chapter 14</h2> <p>This chapter explains merge sort</p>

<h2>Chapter 15</h2> <p>This chapter explains heap sort</p>

</body> </html>

OutPut:

To illustrate Anchor & link Tags

Students Information

Text as a hyperlink to another page :

[Education Details](#)
[Hobbies](#)
[Achievements](#)

List Item as a link/hyperlink :

1. [Apple](#)
2. [Orange](#)
3. [Water Melon](#)

Linking within a same page

[See also Chapter 8 - Binary tree](#)

Chapter 1

This chapter explains Pointers

Chapter 2

This chapter explains variables

Chapter 3

This chapter explains operator

Chapter 4

This chapter explains structure

Chapter 5

This chapter explains arrays

Chapter 6

This chapter explains linked list

Chapter 7

This chapter explains expressions

Chapter 8

This chapter explains Binary Trees

Chapter 9

This chapter explains Unordered trees

Chapter 10

This chapter explains Statements

Chapter 11

This chapter explains searching

Chapter 12

This chapter explains sorting

Chapter 13

This chapter explains Binary sort

Chapter 14

This chapter explains merge sort

Chapter 15

This chapter explains heap sort

Lab Exercise 5(2 Hours)

Title: Study Of Image tag

Objectives : Design Online mobile Shopping web Page with detailed information

Source Code:

```
<html> <body>
```

```
<center><h3> Study of image tag</h3>
```

```
<h4> Online Mobile Shopping</h4></center>
```

```
<font color="#6633CC"><u>Latest Moblies</u></font>
```

```
<marquee> <a href="http://www.samsung.com/in/home/">
```

```
 &nbsp;
```

```
&nbsp;&nbsp;</a></marquee>
```


<p style="font-size:18px"> Now enjoy clearer and sharper images on your Galaxy J7 (2016), thanks to the larger and more vivid sAMOLED display. With vibrant colours and deeper contrast, everything that you watch on the Galaxy J7 (2016) is as lively as your ride.</p>

<p style="font-size:18px"> Best Entertainment on big screenOptimise your music, video and gaming experience thanks to its 7.20 cm (2.8) QVGA display. Packed with 64 MB of RAM, 128 MB of ROM, and up to 16 GB Micro SD, you can store your life in a flash for as long as you like..</p></br></br></br>

<p>Float the image to the right:</p>

<p>

A paragraph with a floating image. A paragraph with a floating image. A paragraph with a floating image.

</p> <p>Float the image to the left:</p>

<p>

A paragraph with a floating image. A paragraph with a floating image. A paragraph with a floating image.

</p> </body>

</html>

OutPut:

Study of image tag

Online Mobile Shopping

[Latest Moblies](#)



Now enjoy clearer and sharper images on your Galaxy J7 (2016), thanks to the larger and more vivid sAMOLED display. With vibrant colours and deeper contrast, everything that you watch on the Galaxy J7 (2016) is as lively as your ride.



Best Entertainment on big screenOptimise your music, video and gaming experience thanks to its 7.20 cm (2.8) QVGA display. Packed with 64 MB of RAM, 128 MB of ROM, and up to 16 GB Micro SD, you can store your life in a flash for as long as you like..

Float the image to the right:

A paragraph with a floating image. A paragraph with a floating image. A paragraph with a floating image.

Float the image to the left:



A paragraph with a floating image. A paragraph with a floating image. A paragraph with a floating image.



Leftframe.html

```
<html>      <body>

<a href="cse.html" target="f3"><h3>CSE</h3></a><br><br><br>

<a href="ece.html" target="f3"><h3>ECE</h3></a><br><br><br>

<a href="eee.html" target="f3"><h3>EEE</h3></a><br><br><br>

<a href="civil.html" target="f3"><h3>Civil</h3></a>

</body>      </html>
```

RightFrame.html

```
<html>      <body bgcolor="pink">      <p>

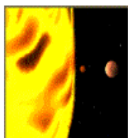
<h2 align="center"><font face="Georgia, Times New Roman, Times, serif" color="green">Online
Book Store Information</font></h2>

<h3><font face="monotypecorsiva" color="#660000">This is the online book store developed by
students of JNEC.

<br />It contains book catalogue of various branches like <ul><li> CSE</li>
<li>ECT</li><li>CIVIL</li><li>EEE</li></ul></font></h3>

</body>      </html>
```

Output:



Online Book Store

- [Home](#) [login](#) [Registration](#) [Catalogue](#) [Cart](#)

[CSE](#)

[ECE](#)

[EEE](#)

[Civil](#)

Online Book Store Information

This is the online book store developed by students of JNEC.
It contains book catalogue of various branches like

- CSE
- ECT
- CIVIL
- EEE

Lab Exercise 7 (2 Hours)

Title: Study Of Table Tag

Objectives: Design a web page for creating departmental Time Table

Source Code :

```
<html>      <body>

<h3 align= "left" style="color:red">To illustrate Table tags</h3>

<center><h3>

MGM's JNEC Aurangabad<br>

DEPARTMENT OF MASTER OF COMPUTER APPLICATION<br> W.E.F- 12-July-2016
</h3></center>

<table border="2" width="75%" cellspacing="2" cellpadding="15" align="center"
bordercolor="#6600CC" >

<h3>  <caption align="left">Class: SYMCA  Hall.No:FF49</caption></h3>

<tr >

<th>Periods</th>

<th rowspan="2">8.30-9.20</th>   <th rowspan="2">9.20-10.10</th>

<th rowspan="2">10.20-11.10</th> <th rowspan="2">11.10-12.00</th>

<th rowspan="2">1.30-2.20</th>   <th rowspan="2">2.20-3.10</th>

<th rowspan="2">3.10-4.00</th>   </tr><tr><th> Days</th></tr>

<tr>

<th>Monday</th>   <td>MCA0302</td> <td>MCA0306</td>

<td>MCA0304</td> <td>MCA0306</td> <td>MCA0302</td>

<td colspan="2"><center>MCA0324</center></td>

</tr>

<tr>

<th>TuesDay</th>

<td colspan="4" bgcolor="cyan"><center>MCA0320/MCA0322</center></td>

<td>MCA0310</td>      <td>MCA0304</td>      <td>MCA308</td>

</tr>
```



```


<tr>
<th>Wednesday</th> <td colspan ="2" bgcolor="red"><center>ELETIVE - I</td>
<td>MCA0306</td> <td>MCA310</td> <td>MCA304</td>
<td>MCA308</td> <td>COUN</td>
</tr>
<tr>
<th>Thursday</th> <td>MCA302</td> <td>MCA0304</td>
<td colspan=2"><center>PD0302</center></td>
<td colspan="3" bgcolor="cyan"><center>MCA0320/MCA0322</center></td>
</tr>
<tr>
<th>Friday</th> <td>MCA0308</td> <td>MCA0306</td> <td>MCA0308</td>
<td>MCA0302</td> <td colspan="2" bgcolor="red"><center>ELECTIVE - II</center></td>
<td><a href="jnec.html"></a></td>
</tr>
</table>
</body> </html>

```

OutPut :

To illustrate Table tags

MGM's JNEC Aurangabad
DEPARTMENT OF MASTER OF COMPUTER APPLICATION
W.E.F- 12-July-2016

Class: SYMCA				Hall.No:FF49			
Periods	8.30-9.20	9.20-10.10	10.20-11.10	11.10-12.00	1.30-2.20	2.20-3.10	3.10-4.00
Days							
Monday	MCA0302	MCA0306	MCA0304	MCA0306	MCA0302	MCA0324	
Tuesday	MCA0320/MCA0322				MCA0310	MCA0304	MCA308
Wednesday	ELETIVE - I		MCA0306	MCA310	MCA304	MCA308	COUN
Thursday	MCA302	MCA0304	PD0302		MCA0320/MCA0322		
Friday	MCA0308	MCA0306	MCA0308	MCA0302	ELECTIVE - II		

Lab Exercise 8(2 Hours)

Title: Study Of Form Tag

Objectives: Design Student Registration Form In Html

Source Code:

```
<html>      <head>

<title>RegistrationForm</title>

</head>

<body bgcolor="#00FF66">

<h3 align="center"> Study of form tag</h3>

<h2 align="center"><u>STUDENT REGISTRATION FORM</u></h2>

<form action="abc.html" name="f" method="post" autocomplete="on">

<table width="200" border="1" >

  <tr>

    <th>FirstName:</th>  <td><input

type="text" name="id1" id="id1" size="30" maxlength="20"/></td>

  </tr>

  <tr>

    <th >LastName:</th>  <td><input

type="text" name="id2" id="id2" size="30" maxlength="20"/></td>

  </tr>

  <tr>

    <th >Valid Email:</th>  <td><input

type="text" name="id3" id="id3" size="70" maxlength="50"/></td>

  </tr>

  <tr>

    <th >Password:</th>

    <td><input type="password" name="id4" id="id4" size="50" maxlength="10"/></td>

  </tr>

</tr>

<tr>
```

```

<th>PhoneNumber:</th>

<td><input type="text"name="id5" id="id5" size="30" maxlength="11"/></td>

</tr>

<tr>

<th >Address :</th> <td> <textarea cols="50" rows="6" name="addr"> </textarea> </td>

</tr>

<tr>

<th >Gender:</th> <td><b>Male:</b><input type="radio"name="gender"
id="r1"value="male"/>

<b>Female:</b><input type="radio"name="gender" id="r1"value="female"/></td>

</tr>

<tr>

<th >Date of Birth:</th> <td><input type="text" name="dob"/></td>

</tr>

<tr>

<th >Qualifications:</th> <td><b>SSC</b><input type="checkbox"name="a1" id="a1"/>

<b>Percentage:</b><input type="text"name="id9" id="id9" size="5"/></br>

<b>HSC</b><input type="checkbox" name="a1" id="a1"/>

<b>Percentage:</b><input type="text" name="id10" id="id10" size="5"/></br>

<b>BCA</b><input type="checkbox" name="a1" id="a1"/>

<b>Percentage:</b><input type="text" name="id11" id="id11" size="5"/></br>

<b>MCA</b><input type="checkbox" name="a1" id="a1"/>

<b>Percentage:</b><input type="text" name="id12" id="id12" size="5"/></br>

<b>MBA</b><input type="checkbox" name="a1" id="a1"/>

<b>Percentage:</b><input type="text" name="id13" Id="id13" size="5"/></td>

</tr>

<tr>

<th >Experience</th> <td><select name="sc1" id="sc1" size="1">

```

```

<option>0-1Year</option> <option>2-3Year</option>
<option>3-5Year</option> <option>Morethan5Year</option>
</select></td> </tr>

<tr>

<th >Upload Photo :</th> <td><input type="file" ></td>

</tr>

<tr>

<td colspan="2"><center>

<input type="submit" value="Submit" onClick="alert('Your Application have been
Submitted');"/> &nbsp;&nbsp;&nbsp;<input type="reset" value="Reset" onClick="alert('Your
Applicationis not Submitted');"/> </center></td>

</tr>

</table> </body>

</html>

```

OutPut :

Study of form tag

STUDENT REGISTRATION FORM

FirstName:	<input style="width: 80%;" type="text"/>
LastName:	<input style="width: 80%;" type="text"/>
Valid Email:	<input style="width: 80%;" type="text"/>
Password:	<input style="width: 80%;" type="password"/>
PhoneNumber:	<input style="width: 80%;" type="text"/>
Address :	<input style="width: 80%; height: 40px;" type="text"/>
Gender:	Male: <input type="radio"/> Female: <input type="radio"/>
Date of Birth:	<input style="width: 80%;" type="text"/>
Qualifications:	SSC <input type="checkbox"/> Percentage: <input style="width: 50%;" type="text"/>
	HSC <input type="checkbox"/> Percentage: <input style="width: 50%;" type="text"/>
	BCA <input type="checkbox"/> Percentage: <input style="width: 50%;" type="text"/>
	MCA <input type="checkbox"/> Percentage: <input style="width: 50%;" type="text"/>
	MBA <input type="checkbox"/> Percentage: <input style="width: 50%;" type="text"/>
Experience	0-1Year <input type="button" value="v"/>
Upload Photo :	<input type="button" value="Choose File"/> No file chosen
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Lab Exercise 9 (2 Hours)

Title: Study Of CSS

Objectives: Create web page using different types of CSS

Source Code:

```
<html>
<head>
<title>css examples</title>
<link rel="stylesheet" type="text/css" href="abc.css" /> <!-- External css-->
<style type="text/css"> <!-- Internal css-->
body
{
margin-left:200px; background:#5d9ab2 url('img_tree.png') no-repeat top left;
}
h3
{ text-align:center; }
div.abc
{
border:1px solid gray; margin-left:auto; margin-right:auto; width:90%;
background-color:#d0f0f6; text-align:left; padding:8px;
}
ul.abc
{ list-style:circle; }
#xyz
{
font-size:18px; font-style:italic;
}
</style> </head>
```

```
<body>
```

```
<h3 > Study of CSS </h3>
```

```
<div class="abc"> <!-- Class selector-->
```

```
<h2>Types of CSS</h2>
```

```
<p>Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language.</p>
```

```
</div>
```

```
<!--Inline CSS-->
```

```
<p style="border-style:dotted solid dashed double">This is some text in a paragraph with dotted border style.</p>
```

```
<p style="font-family:Arial, Helvetica, sans-serif">This is text with font family arial in a paragraph.</p>
```

```
<hr />
```

```
<p id="xyz">This is text with font size 18 and italic style in a paragraph.</p> <!--ID selector-->
```

```
<ul class="abc">
```

```
<li>coffee</li>
```

```
<li>tea</li>
```

```
<li>coca cola</li>
```

```
</ul>
```

```
<p><a href="abc.html" target="_blank">This is a link</a></p>
```

```
</body>
```

```
</html>
```

```
Abc.css
```

```
/* CSS Document */
```

```
<style>
```

```
h2,h3 {color:maroon; font-size:20pt} <!--Group Selector-->
```

```
hr {color:navy}
```

```
p {font-size:11pt; margin-left: 15px}
```


<td>

<h4>use of Object tag</h4>

```
<object data="t.mp4" width="320" height="240"> </object>
```

</td>

<td>

<h4>use of Object tag for Pdf File</h4>

```
<object data="a.pdf" type="application/pdf" width="300" height="200">
```

```
</object>
```

```
</td> </tr>
```

```
</table> </body>
```

```
</html>
```

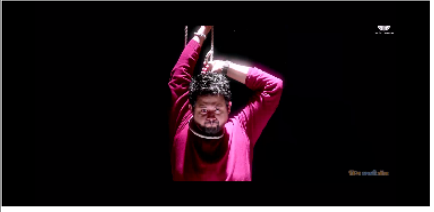
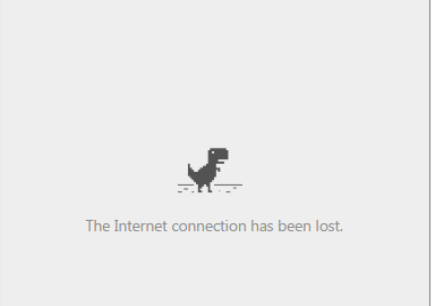


OutPut :

Study of Embedding Multimedia

use of Linking

[Audio song](#) [Video Song](#) [Open odf file](#) [Open DOC file](#)

Audio & Video Library

<p>use of Embed tag</p> 	<p>use of Video tag</p> <p>Index : <i>Access Mechanism</i> <i>studYear</i> <i>where a Record Present</i></p>	<p>use of Iframe tag</p> 
<p>use of Object tag for you tube video</p>	<p>use of Object tag</p> 	<p>use of Object tag for Pdf File</p> 

Lab Exercise 11 (2 Hours)

Title: Study Of Java Script

Objectives Create a page to display Fibonacci series of given number using JS Code

Source Code:

```
<html>
<head>
<script type="text/javascript">
var n,a=0,b=1,i,c
n=prompt("Enter a number ","")
if(n<=0)
alert("Invalid number")
else
{
if(n==1)
document.write(a)
else
document.write(a+"<br />" +b)
for(i=2;i<n;i++)
{
c=a+b;    a=b;  b=c;  document.write("<br />" +c)
}
}
function date()
{
document.write("<h2 style=\"color:red;\">Date Constructor</h2>");
var date1=new Date();
document.write("<br><b style=\"color:red;\">Date1 Constructor without parameter==</b>" +date1);
```

```
document.write('<br><b style="color:red;">Date1 Constructor without  
parameter==</b>'+date1.toGMTString());
```

```
document.write('<br><b style="color:purple;">getHours() Method in  
date1==</b>'+date1.getHours());
```

```
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h3>study of Java Script</h3>
```

```
<h1>Calculating the fibonacci series</h1>
```

```
<input type=button onClick="location.href='11.html'" value='refresh'>
```

```
<input type="button" value="Open new Window" onclick="window.open('2.html')">
```

```
<input type="button" value="Go back two pages" onclick="history.go(-2)" />
```

```
<input type="button" value="show today date" onclick="date()" />
```

```
</body>
```

```
</html>
```

OutPut:



Show today date button

Date Constructor

Date1 Constructor without parameter==Thu Aug 04 2016 22:32:01 GMT+0530 (India Standard Time)

Date1 Constructor without parameter==Thu, 04 Aug 2016 17:02:01 GMT

getHours() Method in date1==22

Lab Exercise 12 (2 Hours)

Title: Study of DOM In Java Script

Objectives: Design a web Page for Validation of Student Registration Form Using JS

Source Code:

```
<html>
<head>
<title>DOM Validation</title>
<script type ="text/javascript">
    function val()
    {   var n=document.f1.name.value;
        var a=document.f1.age.value;
        var e=document.f1.email.value;
            var p=document.f1.pass.value;
            var p1=document.f1.c_pass.value;
            var g=document.f1.gender.value;
        var pos=e.indexOf('@');
            var dotpos=e.indexOf('.');
            var lastdotpos=e.lastIndexOf('.');
            var str=e.substring(pos+1,lastdotpos);
        if(n=="" || a=="" || e=="" ||p=="" ||p1=="")
        {   alert("Fill all the fields");
            return true;
        }
        if(!(a>=18 && a<=55))
        {   alert("You are not eligible,age range should be 18-55");   return true;   }
        if(n.length < 2)
        {   alert("Name Should be greater than 2 char");           return true;
        }
    }
```

```

        if(p!=p1)
        {
            alert("Your Password does not match with Confirm Password");
document.forms[0].p.value="";
document.forms[0].p1.value="";
document.forms[0].p.focus();
        return true;
        }
if((document.f1.gender[0].checked==false)&&(document.f1.gender[1].checked==false))
{
    alert("please select the radio button")
document.form1.r1[0].focus()
return true;
}
    if(pos > lastdotpos)
    {
        alert("Enter domain name ");
        return true;
    }
    else if(str.length < 5)
    {
        alert("email should have @ and . ");
        document.getElementById("str").innerHTML="e.g. ravi_singhal30@yahoo.com";
        return true;
    }
    else
    {
        document.getElementById("str").innerHTML="Hi...."+n+" <br>Age : "+a+" <br>
Email-Id is : "+e;
        return false;
    }
}
</script>
</head>

```

```
<body>
```

```
<h3> Study of DOM In Java Script</h3>
```

```
<h4> Validation of Registration Form</h4>
```

```
<form method="post" name="f1" >
```

```
<p><font color="#993300">Enter First Name :</font>
```

```
<input name="name" type="text" />
```

```
</p><font color="#993300">Enter Last Name :</font>
```

```
<input type="text" placeholder="Enter Last name" pattern="[a-zA-Z0-9_-]{6,12}" title="must be alphanumeric in 6-12 chars" required>
```

```
<p><font color="#993300">Enter Email</font>
```

```
<input name="email" type="text" />
```

```
</p>
```

```
<p><font color="#993300">Enter Alternate Email</font>
```

```
<input type="email" placeholder="Enter email address" required>
```

```
</p>
```

```
<p><font color="#993300">Enter Password</font>
```

```
<input type="password" name="pass" />
```

```
</p>
```

```
<p><font color="#993300">Enter Confirm Password</font>
```

```
<input type="password" name="c_pass" />
```

```
</p>
```

```
<p><font color="#993300">Enter contact Number</font>
```

```
<!--HTML 5 validation-->
```

```
<input type="tel" required />
```

```
</p>
```

```
<p><font color="#993300">Enter Age</font>
```

```
<input type="text" name="age">
```

```
</p>
```

```

    <p><font color="#993300">Gender</font>
<input type="radio" name="gender">Male
    <input type="radio" name="gender"> FeMale </p>
    <p><font color="#993300">Enter Credit Card Number</font>
    <input type="number"size="10" name="credit" min="8" max="12" title="A credit card
number" required/>
</p>
    <p><font color="#993300">Search On Google</font>
<input type="search" name="googlesearch" required>
</p>
    <p>
<input name="submit" type="submit" value="save" onclick="val()" />
<input type="reset" name="r" value="candle"/>
</p>
    <span id="str"> </span>
</form>    </body>
</html>

```

OutPut:

Study of DOM In Java Script

Validation of Registration Form

Enter First Name :


Enter Last Name :

Enter Email

Enter Alternate Email

Enter Password

Enter Confirm Password

 Please include an '@' in the email address. 'abc' is missing an '@'.


Enter contact Number

Enter Age

Gender Male FeMale

Enter Credit Card Number

Search On Google

 Please fill out this field.

Hi...JNEC

Age : 32

Email-Id is : abc@gmail.com

localhost says:

Fill all the fields

Prevent this page from creating additional dialogs.

Lab Exercise 13 (2 Hours)

Title: Study Of XML, DTD, XML with CSS & XML Schema

Objectives: Write XML file to which display Library Information and Validate & Format this file using different types of DTD & CSS file

Source Code :

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!--Formatting XML with CSS and Validate using external DTD-->
```

```
<?xml-stylesheet type="text/css" href="library_xml.css"?>
```

```
<!DOCTYPE Library SYSTEM "library.dtd">
```

```
<!--XML Validation using Internal DTD <!DOCTYPE Library
```

```
[
```

```
<!ELEMENT Library (#PCDATA|Book)*>
```

```
<!ELEMENT Book (Bid,BName,Price,Author)>
```

```
<!ELEMENT Author (FName|LName)*>
```

```
<!ELEMENT FName (#PCDATA)>
```

```
<!ELEMENT LName (#PCDATA)>
```

```
<!ELEMENT Bid (#PCDATA)>
```

```
<!ELEMENT BName (#PCDATA)>
```

```
<!ELEMENT Price (#PCDATA)>
```


<!ATTLIST Book

Language CDATA #FIXED "English"

Publication CDATA #REQUIRED

Avialable (Yes|No) "No">

] >-->

<Library>

This is a library XML document with CSS and Validate using external DTD

<Book Publication="2011" Avialable="Yes">

<Bid>101</Bid>

<BName>Let Us C</BName>

<Price>430</Price>

<Author>

<FName>Yashwant</FName>

<LName>Kanetkar</LName>

<FName>Abc</FName>

</Author>

</Book>

<Book Language="English" Publication="2011" Avialable="No">

<Bid>201</Bid>

<BName>Let Us Cpp</BName>

<Price>430</Price>

<Author>

<LName>Kanetkar</LName>

<FName>Yashwant</FName>

</Author>

</Book> </Library>

Library.dtd

```
<?xml version="1.0" encoding="UTF-8"?>
<!ELEMENT Library (#PCDATA|Book)*>
<!ELEMENT Book (Bid,BName,Price,Author)>
<!ELEMENT Author (FName|LName)*>
<!ELEMENT FName (#PCDATA)>
<!ELEMENT LName (#PCDATA)>
<!ELEMENT Bid (#PCDATA)>
<!ELEMENT BName (#PCDATA)>
<!ELEMENT Price (#PCDATA)>
<!ATTLIST Book
    Language CDATA #FIXED "English"
    Publication CDATA #REQUIRED
    Avialable (Yes|No) "No">
```

Library_xml.css

```
/* CSS Document */
Library
{
    background-color:#FFFF99; }
Book
{
display:block;          margin-bottom:30pt;          margin-left:0;
}
Bid
{ color:#FF0000;        font-size:24px;          font-family:"Monotype Corsiva"; }
BName,Price,Author
{ display:block;          color:#663399;          margin-left:20pt; }
```

OutPut :



Lab Exercise 14 (2 Hours)

Title: Mini Project

Objective : Create Static & Interactive web application Individually using HTML, JS, CSS & HTML5

Description	Font	Size	Boldness	Italics	Underline	Capitalize
College Name	Arial	24	-----	-----	Yes	-----
Document Title	Tahoma	22	-----	-----	-----	-----
Document Subject	Century Gothic	14	-----	-----	-----	Capital
Class	Bookman old Style	12	-----	-----	-----	-----
Document No	Bookman old Style	10	-----	-----	-----	-----
Copy write inf	Bookman old Style	9	-----	-----	-----	-----
Forward heading	Bookman old Style	12	-----	-----	Yes	Capital
Forward matter	Bookman old Style	12	-----	-----	-----	-----
Lab man Contents title	Bookman old Style	12	-----	-----	Yes	Capital
Index title	Bookman old Style	12	Yes	-----	Yes	Capital
Index contents	Bookman old Style	12	-----	-----	-----	-----
Heading	Tahoma	14	Yes	Yes	Yes	-----
Running Matter	Comic Sans MS	10	-----	-----	-----	-----

Evaluation and marking system:

Basic honesty in the evaluation and marking system is absolutely essential and in the process impartial nature of the evaluator is required in the examination system to become popular amongst the students. It is a wrong approach or concept to award the students by way of easy marking to get cheap popularity among the students to which they do not deserve. It is a primary responsibility of the teacher that right students who are really putting up lot of hard work with right kind of intelligence are correctly awarded.

The marking patterns should be justifiable to the students without any ambiguity and teacher should see that students are faced with unjust circumstances.