



HTML 5

Study Guide

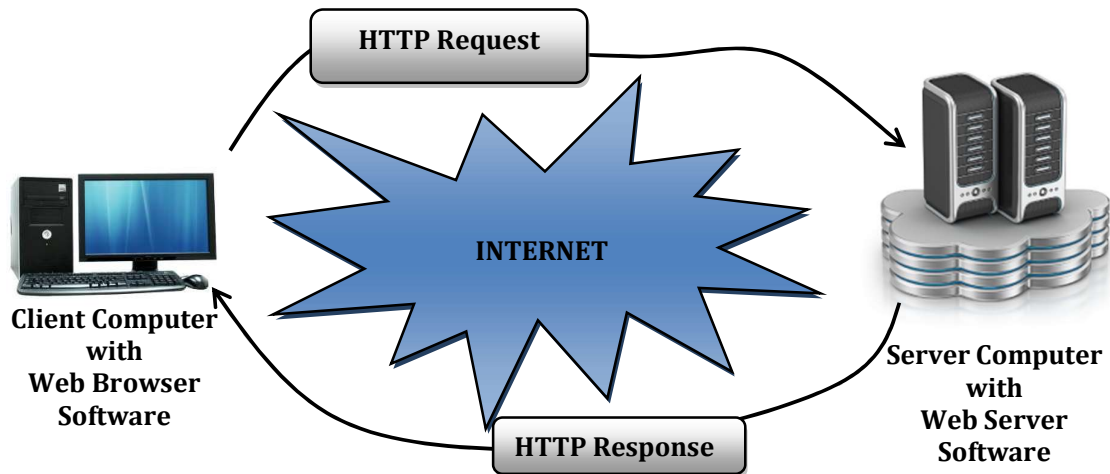
Author
Srinivas Dande





How the web works

- ♦ Website files are hosted on server. The servers serves those files to individual computer users upon request. The internet makes it all possible.



Introduction to HTML

- ♦ HTML stands for Hyper Text Markup Language.
 - ♦ Hypertext: A piece of text that works as a link and used for linking the objects.
 - ♦ Markup: Write the plain text and then mark what you want.
 - ♦ Language : A way of writing layout information within documents.
- ♦ HTML is not a programming language.
- ♦ Markup language are tag based language which is used to define layout and can also be used to structure the data.
 - ♦ The term markup is derived from “marking up”.
 - ♦ There is no scope of compiler in the Markup Language.
 - ♦ Markup language contains series of tags that is used to group elements in the web page.
- ♦ The file extension of the HTML is .html or .htm.



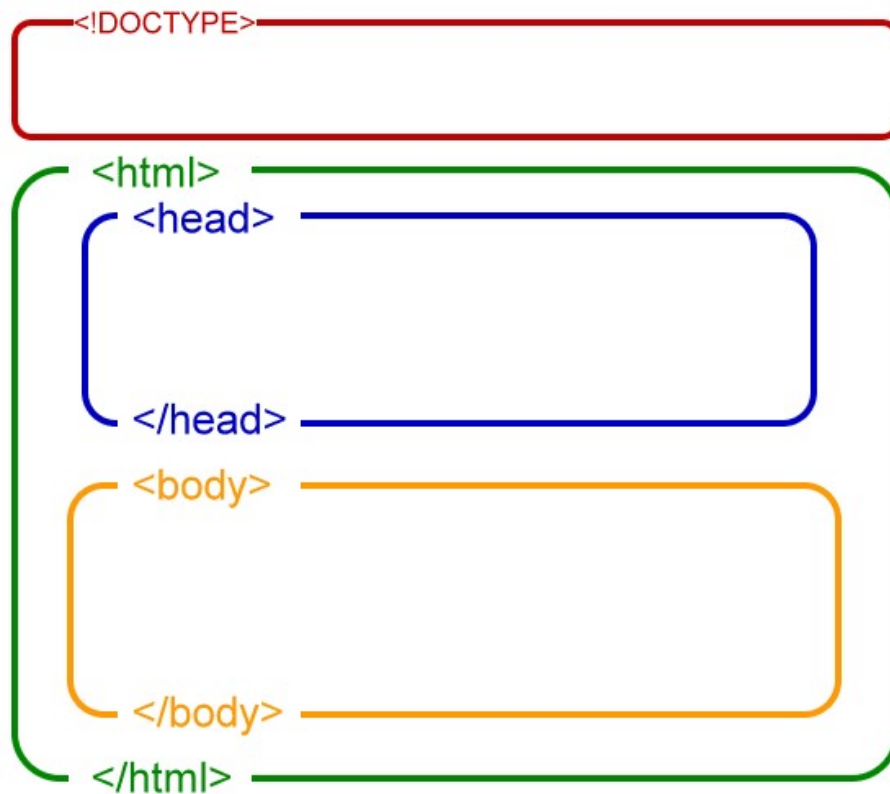
HTML Document Structure

```
<!DOCTYPE html>
<html>

    <head>
        <title> Title here </title>
    </head>

    <body>
        Web page content goes here.
    </body>

</html>
```





1) Doctype:

- ♦ All HTML documents must start with a document type declaration.
- ♦ It must only appear once, at the top of the page (before any HTML tags).
- ♦ The doctypes are used to links to a set of rules that the HTML page had to follow to be considered good HTML.
- ♦ They used to look something like as follows
 - For HTML4:
 - `<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">`
 - For HTML5:
 - `<!DOCTYPE html>`

2) `<html></html>`

- ♦ The `<html>` element wraps all the content on the entire page.
- ♦ It is known as the root element.

3) `<head></head>`

- ♦ `<head>` element is a container for all the header information that we want to include on the HTML page.
- ♦ It does not contains the visible contents.
- ♦ This includes things like
 - keywords and a page description that we want to appear in search results
 - CSS to style our content
 - Character set declarations
 - Java Script Code
 - etc

4) `<title></title>`

- ♦ The `<title>` element sets the title of your page.
- ♦ It is the title appears in the browser tab the page.

5) `<body></body>`

- ♦ The `<body>` element contains all the content that we want to show to web users in the View Port



Q) What Happens when you do some action on the browser?

Ans:

A) Browser is responsible for following when sending the request.

- 1) Capture the Event.
- 2) Collect the Client data
Form Data, Header Data, Cookies , IP Address, OS, Locale(Language)
- 3) Open the Http Connection
- 4) Create the HttpRequest Object.
- 5) Stores the Collected Data in HttpRequest Object.
- 6) Send the HttpRequest Object(Which is a Stream) to Server along the Connection.
- 7) Keep the Connection Live and waits for the Response.(Synchronous Communication).***
- 7) Close the Connection (ASynchronous Communication).***

B) Browser is responsible for following when Receiving the response.

- 1) Receive the Http Response data
(Http Response can be of the following types.
**Text and HTML
** XML
** JSON
- 2) Display the Response Data.
 - ✓ If Response Data is Text and HTML then Text will be displayed by applying the Tag purpose.
 - ✓ If Response Data is XML or JSON then that will be displayed as it is.
- 3) Close the Connection.

**** You need to write Java Script Code to parse the XML or JSON Data and You need to display that Parsed Data.**



Lab1.html

Tags Covered:

<!DOCTYPE> <html> <head> <title> <meta><body><link><script> <p>

Attributes Covered:

id,class,title,

Used CSS :

Inline CSS and Embeded CSS

```
<!DOCTYPE html>
<html>
<head>
  <title>Welcome to JLC!!! </title>
<style>
  p{
    font-size: 20px;
    font-family: Cambria;
    border-radius: 15px;
    margin: 50px;
    padding: 50px;
  }
  #para-1{
    border: 2px dotted red;
  }
  .myclass1{
    border: 2px solid darkcyan;

    margin-left: 20px;
    margin-right: 20px;
    margin-top: 30px;
    margin-bottom: 30px;

    padding-left: 20px;
    padding-right: 20px;
    padding-top: 30px;
    padding-bottom: 30px;
  }
```



```
.myclass2{
    font-size:35px;
    font-family: Cambria;
    border-radius: 15px;
    border-left: 5px dotted red;
    border-right: 5px dotted red;
}
</style>
</head>
<body>
<h2 style="text-align: center;color:red;">Welcome to JLC!!!</h2>
<p id="para-1">
    Spring Boot Features includes Spring Boot Starters, Spring Boot Auto configuration, Spring
    Boot Embedded Containers , Spring Boot Actuators , Spring Boot with Hibernate ,Spring Boot
    with JPA , Spring Data JPA , Developing Spring MVC Applications with Spring Boot , Building
    REST API with Spring Boot , Spring Security with Spring Boot , Spring Messaging with Spring
    Boot , Rabbit MQ with with Spring Boot , Kafka with Spring Boot , Swagger with Spring Boot
</p>
<p id="para-2" class="myclass1">
    Angular Features includes Angular Components , Angular Directives , Angular Pipes ,
    Angular Forms , Angular Validations , Angular Modules , Angular Routes , Async Calls , Angular
    Unit Testing ,Using Bootstrap with Angular , Using Angular Materials
</p>
<p id="para-3" class="myclass1">
    React JS Features includes JSX , Real DOM , Virtual DOM , Developing Components , React
    Hooks, Working with Redux, Making Async Calls to REST API, Routing and Navigation ,
    Working with Forms , Form Validations , HTTP requests - GET, POST, PUT, DELETE , Using
    Bootstrap with React JS , Testing React Applications
</p>
<p id="para-4" class="myclass1">
    Java Full Stack Development
</p>
<div class="myclass1 myclass2">
    Java Full Stack Development by Srinivas Dande
</div>
</body>
</html>
```



Lab2.html

Tags Covered:

<h1>,<h2>,...<h6>,<p>,
,<hr>,<pre>,,<i>,,<sub>,<sup>

Used CSS :

Embedded CSS

```
<!DOCTYPE html>
<html>
<head>
  <title>Welcome to JLC!!! </title>
<style>

  body{
    font-family: Cambria;
    font-size: 20px;
    padding: 25px;
    margin: 25px;
    border: 2px solid red;
  }
  pre{
    font-family: inherit;
    border: 10px dashed black;
    padding: 15px;
    margin: 25px;
  }

</style>
</head>
<body>
<h1> Welcome to JLC!!! </h1>
<h2> Welcome to JLC!!! </h2>
<h3> Welcome to JLC!!! </h3>
<h4> Welcome to JLC!!! </h4>
<h5> Welcome to JLC!!! </h5>
<h6> Welcome to JLC!!! </h6>
<hr/>
```




```
<hr/>
<h2> (a+b) <sup> 2 </sup> = a <sup> 2 </sup> + b <sup> 2 </sup> + 2ab </h2>
<h2> log <sub> 10</sub> a+ log <sub> 10</sub> b = log <sub> 10</sub> ab</h2>
</body>
</html>
```



Lab3.html

Tags Covered:

Attributes Covered:

src,alt,height,width

```
<!DOCTYPE html>
<html>
<head>
  <title>Welcome to JLC!!! </title>
<style>
  img{
    border:2px solid gray;
    border-radius: 15px;
    width: 250px;
    padding: 10px;
    margin: 10px;
  }
</style>
</head>
<body>

<h1> Welcome to JLC!!! </h1>







</body>
</html>
```



Lab4.html

Tags Covered:

<a>

Attributes Covered:

href,target,

Used CSS :

Embeded CSS

```
<!DOCTYPE html>
<html>
<head>
  <title>Welcome to JLC!!! </title>
<style>
  a{
    font-size: 25px;
    font-family: Cambria;
    line-height: 1.8em;
    color:green;
    text-decoration: none;
    background-color: gray;
    border:2px solid gray;
    border-radius: 5px;
  }
  a:visited{
    color:pink;
  }
  a:active{
    color: indigo;
    font-size: 50px;
  }
  a:hover{
    color: red;
    font-size: 50px;
  }
</style>
</head>
<body>
```



```
<h1> Welcome to JLC!!! </h1>
<a href="mycourses/angular.html" target="_self"> Angular Course</a> <br/>
<a href="mycourses/react.html" target="_blank"> React Course</a> <br/>
<a href="mycourses/mongodb.html" target="_new">MongoDB Course</a> <br/>
<a href="mycourses/nodejs.html"> NodeJS Course</a> <br/>
</body>
</html>
```

angular.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Welcome to JLC!!! </title>
<body>
<h1>I am angular page</h1>
<h1>I am angular page</h1>
<h1>I am angular page</h1>
<h1>I am angular page</h1>
<h1>I am angular page</h1>
<h1>I am angular page</h1>
<h1>I am angular page</h1>

<a href=" ../Lab4.html"> Go to Home</a>
</body>
</html>
```

mongodb.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Welcome to JLC!!! </title>
</head>
<body>
<h1>I am mongodb page</h1>
<h1>I am mongodb page</h1>
<h1>I am mongodb page</h1>
<h1>I am mongodb page</h1>
<h1>I am mongodb page</h1>
<h1>I am mongodb page</h1>
```



[Go to Home](../Lab4.html)

</body>

</html>

react.html

<!DOCTYPE html>

<html>

<head>

<title>Welcome to JLC!!! </title>

</head>

<body>

<h1>I am nodejs page</h1>

<h1>I am nodejs page</h1>

<h1>I am nodejs page</h1>

<h1>I am nodejs page</h1>

<h1>I am nodejs page</h1>

<h1>I am nodejs page</h1>

[Go to Home](../Lab4.html)

</body>

</html>

nodejs.html

<!DOCTYPE html>

<html>

<head>

<title>Welcome to JLC!!! </title>

</head>

<body>

<h1>I am React page</h1>

<h1>I am React page</h1>

<h1>I am React page</h1>

<h1>I am React page</h1>

<h1>I am React page</h1>

<h1>I am React page</h1>

[Go to Home](../Lab4.html)

</body> </html>



Lab5.html

Tags Covered:

<a>

Attributes Covered:

href,target,

Used CSS :

Embedded CSS

```
<!DOCTYPE html>
<html>
<head>
  <title>Welcome to JLC!!! </title>
<style>
  a{
    font-size: 25px;
    font-family: Cambria;
    line-height: 1.8em;
    color:green;
    text-decoration: none;

  }
</style>
</head>
<body>
<h1> Welcome to JLC!!! </h1>
<a href="mycourses/myallcourses.html#Angular-Info"> Angular Course</a> <br/>
<a href="mycourses/myallcourses.html#React-Info"> React Course</a> <br/>
<a href="mycourses/myallcourses.html#MongoDB-Info"> MongoDB Course</a> <br/>
<a href="mycourses/myallcourses.html#NodeJS-Info"> NodeJS Course</a> <br/>
</body>
</html>
```

myallcourses.html

```
<!DOCTYPE html>
<html>
<head>
```



```
<title>Welcome to JLC!!! </title>
<style>
  p{
    font-size: 20px;
    font-family: Cambria;
    margin: 15px;
  }
  div{
    border:2px solid red;
    margin:15px;
    padding: 25px;
  }
</style>
</head>
<body>
<div id="Angular-Info">
  <h1> 1. Angular Course </h1>
  <p>I am angular page</p>
  <p>I am angular page</p>
  <p>I am angular page</p>
  //Add Some 20 Lines
</div>

<div id="React-Info">
  <h1> 2. React Course </h1>
  <p>I am React page</p>
  <p>I am React page</p>
  //Add Some 20 Lines
</div>

<div id="MongoDB-Info">
  <h1> 3. MongoDB Course </h1>
  <p>I am mongodb page</p>
  <p>I am mongodb page</p>
  <p>I am mongodb page</p>
  //Add Some 20 Lines
</div>
```



```
<div id="NodeJS-Info">
  <h1> 4. NodeJS Course </h1>
  <p>I am nodejs page</p>
  <p>I am nodejs page</p>
  <p>I am nodejs page</p>
  //Add Some 20 Lines
</div>
</body>
</html>
```

Lab6.html

Tags Covered:

```
<ul> <ol> <li> <dl> <dt><dd>
```

```
<!DOCTYPE html>
<html>
<head>
  <title>Welcome to CC!</title>
  <style>
    ul{
      list-style-type: square;
    }
    .mylistStyle {
      color:red;
      font-size:25px;
      font-family:Cambria;
      line-height: 1.8em;
    }
    .myStyle {
      color:blue;
      font-size:25px;
      font-family:Cambria;
      line-height: 1.8em;
      list-style-type: none;
    }
    ol{
```




```
list-style-type: upper-roman;
color:red;
}

dt {
    color:red;
    font-size:35px;
    font-family:Cambria;
    line-height: 1.5em;
    padding: 25px;
    padding-left: 5px;
}
dd {
    font-size:25px;
    font-family:Cambria;
    line-height: 1.2em;
    text-align: justify;
    padding-right: 50px;
}
</style>
</head>
<body>
<h1> Types of Lists </h1>
<h2> Ordered Lists</h2>
<ol class="mylistStyle" >
    <li> Java Training </li>
    <li> Spring Training </li>
    <li> Angular Training </li>
    <li> MongoDB Training </li>
</ol>

<h2> Ordered Lists</h2>
<ol class="myStyle" id="hello">
    <li> Java Training </li>
    <li> Spring Training </li>
    <li> Angular Training </li>
    <li> MongoDB Training </li>
</ol>
```



<h2>UnOrdered Lists</h2>

```
<ul class="mylistStyle">
  <li> Java Training </li>
  <li> Spring Training </li>
  <li> Angular Training </li>
  <li> MongoDB Training </li>
</ul>
```

<h2>Description Lists</h2>

```
<dl>
```

```
<dt> Java </dt>
```

```
<dd>Java is Programing Language . Java is Programing Language. Java is Programing
Language. Java is Programing Language. Java is Programing Language. Java is Programing
Language. Java is Programing Language. Java is Programing Language. Java is Programing
Language
```

```
</dd>
```

```
<dt> Spring </dt>
```

```
<dd> Spring is Best Java Framework. Spring is Best Java Framework
```

```
. Spring is Best Java Framework. Spring is Best Java Framework. Spring is Best Java
Framework. Spring is Best Java Framework. Spring is Best Java Framework
```

```
Spring is Best Java Framework. Spring is Best Java Framework
```

```
</dd>
```

```
<dt> Angular </dt>
```

```
<dd> Angular is popular JS Framework. Angular is popular JS Framework. Angular is popular
JS Framework. Angular is popular JS Framework. Angular is popular JS Framework. Angular is
popular JS Framework. Angular is popular JS Framework. Angular is popular JS Framework.
Angular is popular JS Framework. Angular is popular JS Framework.
```

```
</dd>
```

```
<dt> React </dt>
```

```
<dd>React is popular JS Framework. React is popular JS Framework. React is popular JS
Framework. React is popular JS Framework. React is popular JS Framework. React is popular
JS Framework. React is popular JS Framework. React is popular JS Framework. React is
popular JS Framework.
```

```
React is popular JS Framework.
```

```
</dd>
```

```
</dl>
```

```
</body>
```

```
</html>
```



Lab7.html

Tags Covered:

<table>,<caption>,<thead>,<tbody>,<tr>,<th>,<td>

```
<!DOCTYPE html>
<html>
<head>
<title>Welcome to CC!</title>
<style>
body{
width: 80%;
}
.mytable{
width: 100%;
}
table,td,th{
border:1px solid red;
border-collapse: collapse;
font-size: 25px;
}
/*
tr:nth-child(odd){
background-color: azure;
}
tr:nth-child(even){
background-color:lavender;;
}
tr:nth-child(5){
background-color: red;
}
*/
td:nth-child(odd){
background-color: azure;
}
td:nth-child(even){
background-color:lavender;
}
```



```
</style>
</head>
<body>
<table class="mytable">
<caption> <h3>Student Information</h3> </caption>
<thead>
<tr>
<th>Sid </th>
<th>Sname </th>
<th>Email </th>
<th>Phone </th>
<th>Course </th>
</tr>
</thead>
<tbody>
<tr>
<td>101 </td>
<td>Sri </td>
<td>Sri@jlc </td>
<td>12345 </td>
<td>Angular </td>
</tr>
<tr>
<td>101 </td>
<td>Sri </td>
<td>Sri@jlc </td>
<td>12345 </td>
<td>Angular </td>
</tr>
//Add Some Rows
</tbody>
</table>
</body>
</html>
```



Lab8.html

Tags Covered:

<table>

Attributes Covered:

colspan, rowspan

```
<!DOCTYPE html>
<html>
<head>
<title>Welcome to CC!</title>
<style>
table,td,th{
border:1px rgb(180, 151, 151) solid;
border-collapse: collapse;
font-size: 25px;
}
.mytable{
width: 80%;
}
tr:nth-child(odd){
background-color: azure;
}
tr:nth-child(even){
background-color:lavender;;
}
</style>
</head>
<body>

<table class="mytable">
<caption> <h3>Stduent Information</h3> </caption>
<thead>
<tr>
<th>Sid </th>
<th>Sname </th>
<th>Email </th>
<th>Phone </th>
```



```
<th>Course 1</th>
<th>Course 2</th>
</tr>
</thead>
<tbody>
<tr>
<td rowspan="2">101 </td>
<td rowspan="2">Sri </td>
<td>Sri@jlc </td>
<td>12345 </td>
<td rowspan="2">Angular </td>
<td rowspan="2"> React </td>
</tr>

<tr>
<td>vas@jlc </td>
<td>54321 </td>
</tr>

<tr>
<td>102 </td>
<td>sd </td>
<td>sd@jlc </td>
<td>1111 </td>
<td colspan="2">React </td>
</tr>

<tr>
<td>103 </td>
<td>ds </td>
<td>ds@jlc </td>
<td>222 </td>
<td>MongoDB </td>
<td>Angular </td>
</tr>

<tr>
<td rowspan="2">104 </td>
```



```
<td rowspan="2">Sri </td>
<td>Sri@jlc </td>
<td>12345 </td>
<td rowspan="2">Angular </td>
<td rowspan="2"> Node </td>
</tr>
```

```
<tr>
<td>vas@jlc </td>
<td>54321 </td>
</tr>
```

```
<tr>
<td>105 </td>
<td>sd </td>
<td>sd@jlc </td>
<td>1111 </td>
<td colspan="2">NodeJS </td>
</tr>
```

```
<tr>
<td>106 </td>
<td>ds </td>
<td>ds@jlc </td>
<td>222 </td>
<td>MongoDB </td>
<td>Angular </td>
</tr>
</tbody>
</table>
</body>
</html>
```



Lab9.html

Tags Covered:

<div>,

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title> Div and Span Demo </title>
<style>
.left-menu,.right-menu{
width: 20%;
float: left;
margin-top: 26px;
}
.content-section{
width: 60%;
float: left;
}
.left-menu > a,.right-menu > a{
display: block;
font-weight: bold;
font-family: cambria;
font-size: 20px;
}
.bold{
font-weight: bold;
font-family: cambria;
font-size: 20px;
}
</style>
</head>
<body>

<div class="left-menu">
<a href="#">Java Training</a>
<a href="#">Python Training</a>
```




[Spring Training](#)

[Spring Boot Training](#)

[Angular Training](#)

Java Training

First Para : This is my First Paragraph

some 10 lines of text copy here

second Para : This is my second Paragraph

some 10 lines of text copy here

third Para : This is my third Paragraph

some 10 lines of text copy here

fourth Para : This is my third Paragraph

This is My Fourth Paragraph

fifth Para : This is my third Paragraph

This is My Fifth Paragraph

fifth Para : This is my third Paragraph

This is My Fifth Paragraph

fifth Para : This is my third Paragraph

This is My Fifth Paragraph

fifth Para : This is my third Paragraph



This is My Fifth Paragraph

</p>

<p id="fifth-para" title="This is my third Paragraph">

This is My Fifth Paragraph

</p>

<p id="fifth-para" title="This is my third Paragraph">

This is My Fifth Paragraph

</p>

<p id="fifth-para" title="This is my third Paragraph">

This is My Fifth Paragraph

</p>

</div>

<div class="right-menu">

Java Training

Python Training

Spring Training

Spring Boot Training

Angular Training

</div>

</body>

</html>



Lab10.html

Tags Covered:

<iframe>

```
<!DOCTYPE html>
<html>
<head>
<title>Welcome to CC!</title>
<style>
#hmenu{
border: 1px blue solid;
color: red;
font-size: 20px;
width: 900px;
height: 50px;
margin-left: 50px;
margin-right: 50px;
margin-bottom: 10px;
margin-top: 30px;
padding-top: 15px;
padding-left: 25px;
}
span{
padding: 10px;
}
.bodyContent{
border: 1px red solid;
width: 900px;
height: 450px;
margin-left: 50px;
margin-right: 50px;
margin-bottom: 10px;
}

#myframe{
width: 900px;
height: 450px;
```



border: 1px red solid;

}

</style>

</head>

<body>

<div id="hmenu">

 NodeJS Training

 Angular Training

 MongoDB Training

 Open CourseCube

 Open Facebook

</div>

<div class="bodyContent">

<iframe id="myframe" name="myframe" src="mycourses/welcome.html" >

</iframe>

</div>

</body>

</html>



Lab11.html

Tags Covered:

<iframe>

```
<!DOCTYPE html>
<html>
<head>
<title>Welcome to CC!</title>
<style>
```

```
#hmenu{
border: 1px blue solid;
color: red;
font-size: 20px;
line-height: 2.0em;
width: 200px;
height: 450px;
margin-left: 10px;
margin-right: 10px;
float: left;
margin-top: 10px;
padding-left: 10px;
}
.bodyContent{
border: 1px red solid;
width: 700px;
height: 450px;
margin-left: 10px;
margin-right: 10px;
float: left;
margin-top: 10px;
}
#myframe{
width: 700px;
height: 450px;
border: 1px red solid;
}
```



```
span{
display: inline-block;
}
.footer{
width: 960px;
height: 100px;
border: 1px red solid;
margin-left: 10px;
margin-right: 10px;
float: left;
margin-top: 10px;
color: red;
font-size: 25px;
}
</style>
</head>
<body>
<div id="hmenu">
<span> <a href="mycourses/nodejs.html" target="myframe"> NodeJS Training </a> </span>
<span> <a href="mycourses/angular.html" target="myframe"> Angular Training
</a></span>
<span> <a href="mycourses/mongodb.html" target="myframe"> MongoDB Training </a>
</span>
<span> <a href="https://www.coursecube.com" target="myframe">Open CourseCube </a>
</span>
<span> <a href="https://www.facebook.com" target="myframe">Open Facebook </a>
</span>
</div>

<div class="bodyContent">
<iframe id="myframe" name="myframe" src="mycourses/welcome.html" >
</iframe>
</div>
<div class="footer">
<p> All right Reserved.CourseCube 2020.</p>
</div>
</body>
</html>
```



Lab12.html

```
<!DOCTYPE html>
<html> <head>
<title>CourseCube Registration Form</title>
<style type="text/css">

body {
background-color: milkwhite;
}

.myRegTable{
text-align: left;
font-family: verdana;
font-size: 20px;
font-weight:bold;
}

input,select,textarea {
color:red;
font-family: verdana;
font-size: 20px;
font-weight:bold;
padding: 5px 5px;
margin: 8px 0;
border: 1px solid blue;
border-radius:5px;
}

input[type=submit] ,input[type=reset],button{
color:green;
font-family: verdana;
font-size: 20px;
font-weight:bold;
padding: 10px 10px;
margin: 22px 0;
}
```



```
input[type=radio],input[type=checkbox] {
color:red;
border: 5px red solid;
width: 1.5em;
height: 1.5em;
}
div{
background-color:beige;
width:75%;
margin-left:150px;
}
</style>
</head>
<body>
<div>
<form action="register.jlc" method="POST" enctype="multipart/form-data">
<table class="myRegTable">
<caption> <h2> Registration Form</h2></caption>
<tr>
<td> <label for="mysid"> Student ID </label></td>
<td> <input type="text" name="sid" id="mysid" value="B99-101" size="20"
readonly> </td>
</tr>
<tr>
<td><label for="fname"> Full Name </label></td>
<td> <input type="text" id="fname" name="fname" /></td>
</tr>
<tr>
<td> <label for="email"> Email ID </label></td>
<td> <input type="text" id="email" name="email" /></td>
</tr>
<tr>
<td> <label for="pword"> Password </label></td>
<td> <input type="password" id="pword" name="pword" /></td>
</tr>
<tr>
<td> <label for="courses"> Courses</label></td>
<td>
```




```
<input type="radio" id="courses" name="courses" vaue="Java"/> Java <br/>
<input type="radio" id="courses" name="courses" vaue="Python"/> Python
<br/>
<input type="radio" id="courses" name="courses" vaue="Angular"/> Angular
<br/>
<input type="radio" id="courses" name="courses" vaue="MongoDB"/>
MongoDB <br/>
</td> </tr>
<tr>
<td> <label for="courses" > Courses</label></td>
<td>
<input type="checkbox" id="courses" name="courses" vaue="Java"/> Java
<br/>
<input type="checkbox" id="courses" name="courses" vaue="Python"/> Python
<br/>
<input type="checkbox" id="courses" name="courses" vaue="Angular"/>
Angular <br/>
<input type="checkbox" id="courses" name="courses" vaue="MongoDB"/>
MongoDB <br/>
</td>
</tr>
<tr>
<td> <label for="courses" > Courses</label></td>
<td>
<select id="courses" name="courses" >
<option value="">-----select----- </option>
<option value="Java">Java </option>
<option value="Python"> Python</option>
<option value="Angular">Angular </option>
<option value="MongoDB"> MongoDB</option>
</select>
</td>
</tr>
<tr>
<td> <label for="photo" > Upload Photo</label></td>
<td> <input type="file" id="photo" name="photo" /></td>
</tr>
<tr>
```



```
<td> <label for="myremarks"> Remarks </label></td>
<td>
<textarea name="remarks" id="myremarks" cols="30" rows="5"></textarea>
</td>
</tr>
<tr>
<td colspan="2">
<input type="button" value="I am button 1" />
<button> I am button 2</button>
<input type="submit" id="x" value="Register Now" />
<input type="reset" id="y" value="Clear Form" />
<input type="hidden" name="mytoken" value="D1X5w9"/>
</td>
</tr>
</table>
</form>
</div>
</body>
</html>
```

Lab13.html

```
<!DOCTYPE html>
<html>
<head>
<title>HTML 5 new Form Elements </title>
<style type="text/css">
body {
background-color: milkwhite;
}
.regFormTable{
text-align: left;
font-family: verdana;
font-size: 20px;
font-weight:bold;
}
input {
color:red;
```



```
font-family: verdana;
font-size: 20px;
font-weight: bold;
padding: 5px 5px;
margin: 8px 0;
border: 1px solid blue;
border-radius: 5px;
}
</style>
</head>
<body>
<div align="center" style="background-color: lightgray;">
<form action="hello.jsp"
    method="GET"
    enctype="text/plain"
    autocomplete="off">
<table class="regFormTable">
<caption> <h2> HTML 5 new Form Elements </h2></caption>
<tr>
<td><label for="sid" > SID</label></td>
<td><input type="text" id="sid" name="sid" value="B26-101"
    placeholder="SID" readonly/></td> </tr>
<tr>
<td><label for="fname" > Full Name </label></td>
<td><input type="text" id="fname" name="fname"
    placeholder="Full Name"
    maxlength="10"
    required
    autofocus/></td>
</tr>
<tr>
<td><label for="email" > Email ID </label></td>
<td><input type="email" id="email" name="email"
    placeholder="Email ID"
    maxlength="20"
    required /></td>
</tr>
```



```
<tr>
<td> <label for="phone" > Phone No </label></td>
<td> <input type="tel" id="phone" name="phone"
placeholder="Phone No"
pattern="[0-9]{5}"
required/></td> </tr>
<tr>
<td> <label for="jlc-courses" > Courses</label></td>
<td>
<input list="mycourses" id="jlc-courses" name="courses" required >

<datalist id="mycourses">
<option value="Java"> Java </option>
<option value="Python"> Python</option>
<option value="Angular">Angular </option>
<option value="MongoDB"> MongoDB</option>
<option value="JDBC">JDBC </option>
<option value="Pyramid"> Pyramid</option>
<option value="JSP">JSP </option>
<option value="MySQL"> MySQL</option>
</datalist> </td> </tr>
<tr>
<td colspan="2" align="center">
<input type="submit" value="Submit Now" />
</td> </tr>
</table>
</form>
</div>
</body>
</html>
```



Lab14.html

```
<!DOCTYPE html>
<html>
<head>
<title>HTML 5 new Form Elements </title>
<style type="text/css">
body {
background-color: milkwhite;
}
.mytable{
text-align: left;
font-family: verdana;
font-size: 20px;
font-weight:bold;
}
input {
color:red;
font-family: verdana;
font-size: 20px;
font-weight:bold;
padding: 5px 5px;
margin: 8px 0;
border: 1px solid blue;
border-radius:5px;
}
</style>
</head>
<body>
<div align="center" style="background-color: lightgray;">
<form action="hello.jsp" novalidate >
<table class="mytable">
<caption> <h2> HTML 5 new Form Elements </h2></caption>

<tr>
<td> <label for="fname" > Full Name </label></td>
<td> <input type="text" id="fname" name="myfname" value="Srinias" disabled/></td>
</tr>
```



```
<tr>
<td> <label for="email" > Email ID</label></td>
<td> <input type="search" id="email" name="myemail" required/></td> </tr>
<tr>
<td> <label for="age" > Age</label></td>
<td> <input type="number" id="age" name="myage1" step="1" min="21" max="40"
required/></td> </tr>
<tr>
<td> <label for="age" > Age</label></td>
<td> <input type="range" id="age" name="myage2" min="25" max="35" required/></td>
</tr>
<tr>
<td> <label for="mycolor" > Choose color</label></td>
<td> <input type="color" id="mycolor" name="mycolor" required/></td>
</tr>
<tr>
<td colspan="2" align="center">
<input type="submit" value="Submit Now" />
</td>
</tr>
</table>
</form>
</div>
</body>
</html>
```



Lab15.html

```
<!DOCTYPE html>
<html>
<head>
<title>HTML 5 new Form Elements </title>
<style type="text/css">
body {
background-color: milkwhite;
}

.mytable{
text-align: left;
font-family: verdana;
font-size: 20px;
font-weight:bold;
}

input {
color:red;
font-family: verdana;
font-size: 20px;
font-weight:bold;
padding: 5px 5px;
margin: 8px 0;
border: 1px solid blue;
border-radius:5px;
}

</style>
</head>
<body>
<div align="center" style="background-color: lightgray;">
<form action="hello.jsp" autocomplete="on">
<table class="mytable">
<caption> <h2> HTML 5 new Form Elements </h2></caption>
```



```
<tr>
<td> <label for="dob" > Date of Birth </label></td>
<td> <input type="date"
      id="dob"
      name="dob"
      min="1980-12-31"
      max="2020-12-31"
      required/></td>
</tr>
<tr>
<td> <label for="tob" > Time of Birth </label></td>
<td> <input
      type="time"
      id="tob"
      name="tob"
      min="09:00"
      max="11:00"
      required/>
</td>
</tr>
<tr>
<td> <label for="date-time" > Date and Time </label></td>
<td> <input type="datetime-local"
      id="date-time"
      name="date-time"
      required/></td>
</tr>
<tr>
<td> <label for="myweek" > Week of month </label></td>
<td> <input type="week"
      id="myweek"
      name="myweek"
      required/></td>
</tr>
<tr>
<td> <label for="mymonth" > Month of Year </label></td>
<td> <input type="month"
      id="mymonth"
      name="mymonth"
```




```
        required/></td>
</tr>
<tr>
<td colspan="2" align="center">
<input type="submit" value="Submit Now" />
</td>
</tr>
</table>
</form>
</div>
</body>
</html>
```

Lab16.html

```
<!DOCTYPE html>
<html>
<head>
<title>HTML 5 new Form Elements </title>
<style type="text/css">
body {
background-color: milkwhite;
}
.mytable{
text-align: left;
font-family: verdana;
font-size: 20px;
font-weight:bold;
}
input {
color:red;
font-family: verdana;
font-size: 20px;
font-weight:bold;
padding: 5px 5px;
margin: 8px 0;
border: 1px solid blue;
border-radius:5px;
```



```
}
</style>
</head>
<body>
<div align="center" style="background-color: lightgray;">
<form id="regForm"
  action="hello.jsp"
  enctype="text/plain"
  method="GET"
  autocomplete="on"
  target="_blank"
  novalidate>
<table class="mytable">
<caption> <h2> HTML 5 new Form Elements </h2></caption>
<tr>
  <td> <label for="website" > Web Site </label></td>
  <td> <input type="url" id="website" name="website" required/></td> </tr>
<tr> <td colspan="2" align="center">
<input type="submit" value="Submit Now" /> </td> </tr>
</table>
</form>

<table class="mytable">
<tr> <td> <label for="fullname" > Full name </label></td>
<td> <input type="text" id="fullname" name="fullname" form="regForm" required/></td>
</tr>
</table>
</div>
</body>
</html>
```



Lab17.html

```
<!DOCTYPE html>
<html>
<head>
<title>HTML 5 new Form Elements </title>
<style type="text/css">
body {
background-color: milkwhite;
}
.mytable{
text-align: left;
font-family: verdana;
font-size: 20px;
font-weight:bold;
}
input {
color:red;
font-family: verdana;
font-size: 20px;
font-weight:bold;
padding: 5px 5px;
margin: 8px 0;
border: 1px solid blue;
border-radius:5px;
}
</style>
</head>
<body>
  <form>

  <table class="mytable">
  <caption> <h2> HTML 5 new Form Elements </h2></caption>
  <tr> <td> <label for="website" > Web Site </label></td>
  <td> <input type="url"
           id="website"
           name="website"
           required/></td> </tr>
```



```
<tr> <td colspan="2" align="center">
```

```
<input type="submit"
      value="Submit Now"
      formaction="hello.jsp"
      formenctype="text/plain"
      formmethod="GET"
      formtarget="_blank"
      formnovalidate
```

```
    />
```

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

```
</table>
```

```
</form>
```

```
</body>
```

```
</html>
```

Lab18.html

```
<html>
```

```
<body>
```

```
<video width="400" controls autoplay >
```

```
<source src="myvids/hello.mp4" type="video/mp4" >
```

```
<source src="myvids/hello.ogv" type="video/ogg">
```

Your browser does not support HTML5 video.

```
</video>
```

```
<iframe width="560" height="315"
```

```
src="https://www.youtube.com/embed/nq65TZIF6js?autoplay=1"
```

```
frameborder="0"></iframe>
```

```
</body>
```

```
</html>
```



Lab19.html

```
<!DOCTYPE html>
<html>
<body>

<audio controls loop>
<source src="myvids/hello.ogg" type="audio/ogg">
<source src="myvids/hello.mp3" type="audio/mpeg">
Your browser does not support the audio element.
</audio>

</body>
</html>
```

Lab20.html

```
<!DOCTYPE html>
<html>
<head>
<style>
object ,embed, iframe {
border: 2px solid blue;
border-radius:5px;
}
</style>
</head>
<body>
<object width="100px" height="100px" data="bookmark.swf">
Object not supported
</object>
<object width="300px" height="100px" data="Lab17.html">
Object not supported
</object>
<object width="300px" height="100px" data="images/angularDEV.jpg">
Object not supported
</object>
```



<embed width="100px" height="100px" src="bookmark.swf">

<embed width="300px" height="100px" src="Lab17.html">

<embed idth="300px" height="100px" src="images/angularDEV.jpg">

<iframe width="100px" height="100px" src="bookmark.swf"> </iframe>

<iframe width="300px" height="100px" src="Lab17.html"> </iframe>

<iframe width="300px" height="100px" src="images/angularDEV.jpg"> </iframe>

</body>

</html>

Lab21.html

<!DOCTYPE html>

<html> <head>

<title>HTML 5 new Semantic Elements </title>

<style type="text/css">

#myheader{

float: left;

width: 100%;

background-color: goldenrod;

}

#myfooter{

float: left;

width: 100%;

background-color: goldenrod;

text-align: center;

font-family: Cambria;

font-size: 20px;

font-weight: bold;

padding: 10px;

margin: 15px;

}

#mylinks{

float: right;;

font-family: Cambria;



```
font-size: 20px;
font-weight:bold;
padding: 10px;
margin: 15px;
}
#body-content{
float: left;
width:70%;
}

#more-courses{
float: left;
width:30%;
}
#head-text{
font-family: Cambria;
font-size: 25px;
font-weight:bold;
color:red;
}
.myarticle{
/*border: 2px solid royalblue;*/
padding: 10px;
margin: 15px;
}
.mysection{
border: 2px solid goldenrod;
padding: 10px;
margin: 15px;
}
p{
font-family: Cambria;
font-size: 20px;
font-weight:bold;
text-align: justify;
}
</style>
</head>
```



<body>

<header id="myheader">

<nav id="mylinks">

 Courses

 Contact

 Login

 Register

</nav>

</header>

<main id="body-content">

<article class="myarticle">

Java 9 New features :

<p >

Java 9 New features Java 9 New features Java 9 New features Java 9 New features

Add Some 5 lines of text here

</p>

<section class="mysection">

 Java 9 new feature 1:

<p>

Java 9 new feature 1 information Java 9 new feature 1 information Java 9 new feature 1 information

Add Some 5 lines of text here

</p>

</section>

<section class="mysection">

 Java 9 new feature 2:

<p>

Java 9 new feature 2 information Java 9 new feature 2 information Java 9 new feature 2 information

Add Some 5 lines of text here

</p>

</section>

</article>

<article class="myarticle">

 HTML 5 New features :

<p>



HTML 5 New features HTML 5 New features HTML 5 New features HTML 5 New features HTML 5 New features

Add Some 5 lines of text here

</p>

<section class="mysection">

 HTML 5 new feature 1:

<p>

HTML 5 new feature 1 information here HTML 5 new feature 1 information

Add Some 5 lines of text here

</p>

</section>

<section class="mysection">

 HTML 5 new feature 2:

<p>

HTML 5 new feature 2 information here HTML 5 new feature 2 information

Add Some 5 lines of text here

</p>

</section>

<section class="mysection">

 HTML 5 new feature 3:

<p>

HTML 5 new feature 3 information here HTML 5 new feature 3 information here

Add Some 5 lines of text here

</p>

</section>

</article>

</main>

<aside id="more-courses">

<figure class="course-card">

<figcaption id="head-text">Java Full Stack Developer</figcaption>

</figure>

<figure class="course-card">

<figcaption id="head-text">Web Full Stack Developer</figcaption>

</figure>

<figure class="course-card">



```
<figcaption id="head-text">AWS Developer</figcaption>
</figure>
<figure class="course-card">

<figcaption id="head-text">DevOps Developer</figcaption>
</figure>
</aside>

<footer id="myfooter">
    Copyrights © 2019 Java Learning Center. All Rights Reserved.
</footer>
</body>
</html>
```

Lab22.html

```
<!DOCTYPE html>
<html> <head>
<title>HTML 5 new Semantic Elements </title>
<style type="text/css">
#myheader{
float: left;
width: 100%;
background-color: goldenrod;
}

#myfooter{
float: left;
width: 100%;
background-color: goldenrod;
text-align: center;
font-family: Cambria;
font-size: 20px;
font-weight:bold;
padding: 10px;
margin: 15px;
}
```



```
#mylinks{
float: right;;
font-family: Cambria;
font-size: 20px;
font-weight:bold;
padding: 10px;
margin: 15px;
}
```

```
#body-content{
float: left;
width:70%;
}
```

```
#more-courses{
float: left;
width:30%;
}
```

```
#head-text{
font-family: Cambria;
font-size: 25px;
font-weight:bold;
color:red;
}
```

```
.myarticle{
/*border: 2px solid royalblue;*/
padding: 10px;
margin: 15px;
}
```

```
.mysection{
border: 2px solid goldenrod;
padding: 10px;
margin: 15px;
}
```

```
p{
font-family: Cambria;
font-size: 20px;
```



```
font-weight:bold;
```

```
text-align: justify;
```

```
}
```

```
</style> </head>
```

```
<body>
```

```
<div id="myheader">
```

```

```

```
<nav id="mylinks">
```

```
<a href="#"> Courses</a> &nbsp;
```

```
<a href="#"> Contact </a> &nbsp;
```

```
<a href="#"> Login </a> &nbsp;
```

```
<a href="#">Register </a> &nbsp;
```

```
</nav>
```

```
</div>
```

```
<div id="more-courses">
```

```
<figure class="course-card">
```

```

```

```
<figcaption id="head-text">Java FSD</figcaption>
```

```
</figure>
```

```
<figure class="course-card">
```

```

```

```
<figcaption id="head-text">Angular Developer</figcaption>
```

```
</figure>
```

```
<figure class="course-card">
```

```

```

```
<figcaption id="head-text">AWS Developer</figcaption>
```

```
</figure>
```

```
<figure class="course-card">
```

```

```

```
<figcaption id="head-text">DevOps Engineer</figcaption>
```

```
</figure>
```



```
<figure class="course-card">
  
  <figcaption id="head-text">DevOps Engineer</figcaption>
</figure>

<figure class="course-card">
  
  <figcaption id="head-text">DevOps Engineer</figcaption>
</figure>
</div>

<div id="body-content">

  <div class="myarticle">
    <span id="head-text">Java 9 New features : </span>
    <p>
      Java 9 New features Java 9 New features Java 9 New features Java 9 New
      features Add Some 5 lines of text here
    </p>
    <div class="mysection">
      <span id="head-text"> Java 9 new feature 1: </span>
      <p>
        Java 9 new feature 1 information Java 9 new feature 1 information Java
        9 new feature 1 information Add Some 5 lines of text here
      </p>
    </div>
    <div class="mysection">
      <span id="head-text"> Java 9 new feature 2: </span>
      <p>
        Java 9 new feature 2 information Java 9 new feature 2 information Java
        9 new feature 2 information Add Some 5 lines of text here
      </p>
    </div>
  </div>

  <div class="myarticle">
    <span id="head-text"> HTML 5 New features : </span>
```



```
<p>
HTML 5 New features HTML 5 New features HTML 5 New features HTML 5
New features HTML 5 New features    Add Some 5 lines of text here
</p>
<div class="mysection">
<span id="head-text"> HTML 5 new feature 1: </span>
<p>
HTML 5 new feature 1 information here HTML 5 new feature 1
Information    Add Some 5 lines of text here    </p>
</div>
<div class="mysection">
<span id="head-text"> HTML 5 new feature 2: </span>
<p>
HTML 5 new feature 2information here HTML 5 new feature 2
Information    Add Some 5 lines of text here    </p>
</div>
<div class="mysection">
<span id="head-text"> HTML 5 new feature 3: </span>
<p>
HTML 5 new feature 3 information here HTML 5 new feature 3
information here    Add Some 5 lines of text here    </p>
</div>
</div>
<div id="myfooter">
Copyrights © 2019 Java Learning Center. All Rights Reserved.
</div>
</body>
</html>
```