



Web Basics - HTML5 Lab Book









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Getting Started

Overview

This lab book is a guided tour for learning HTML. It comprises solved examples and 'To Do' assignments. Follow the steps provided in the solved examples and work out the 'To Do' assignments given.

Setup Checklist for HTML5

Here is what is expected on your machine in order for the lab to work.

Minimum System Requirements

- Intel Pentium 90 or higher (P166 recommended)
- Microsoft Windows 95, 98, or NT 4.0, 2k, XP.
- Memory: 32MB of RAM (64MB or more recommended)
- Internet Explorer 6.0 or higher

Please ensure that the following is done:

• A editor like Notepad, Eclipse, Visual Studio 2008 is installed.

Instructions

- For all coding standards refer Appendix A. All lab assignments should refer coding standards.
- Create a directory by your name in drive <drive>. In this directory, create a subdirectory html_assgn. For each lab exercise create a directory as lab <lab number>.
- You may also look up the on-line help provided in the MSDN library.
- The faculty will introduce you to the editor to be used.

Learning More (Bibliography)

- HTML Source Book by Ian S. Graham
- HTML: Complete Concepts and Techniques by Gary B. Shelly

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- HTML: The Definitive Guide by Chuck Musciano
- Dynamic HTML: The Definitive Reference by Danny Goodman
- HTML: The Complete Reference by Thomas A. Powell



Lab 1: HTML Basics

Goals	Understand the process of creating an HTML page and viewing it in a
	browser window.
	Learn to apply physical or logical character effects.
	Learn to manage document spacing
Time	45 minutes

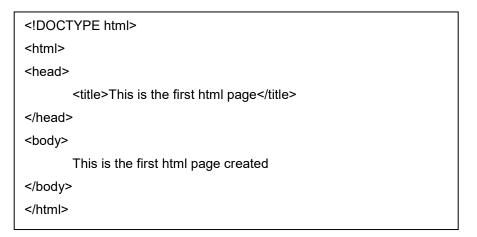
1.1: Create HTML Page

Create a web page to display the text 'This is the first html page created'.

Solution:

Step 1: Click the **Start** button. On the **Programs** menu, navigate to the **Accessories** submenu. Click **Notepad**.

Step 2: Write the below HTML program in Notepad.



Step 3: Save the file with extension .html. Save it in the lab1 directory as firstpage.html.

Step 4: From Internet Explorer, on the **File** menu, click **Open**. **Open** dialog box appears. Click **Browse** to select the file you have just saved. Refer to the figure that follows.

Step 5: Once you have selected the file, click **OK** in the **Open** dialog box. Output appears as shown in the figure that follows.

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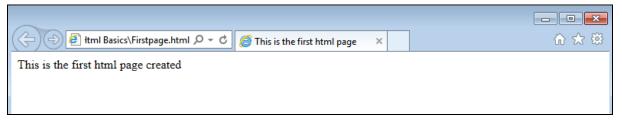


Figure 1: First.html in a browser

1.2 Example: MyFirstPage.html

```
<!DOCTYPE html>
<html>
<head>
<title>My First Page</title>
<meta [http-equiv] [contents=n]>
<meta http-equiv=refresh content=6o>
<!--will refresh the current document after every 6o seconds.-->
<meta http-equiv=refresh content="2o;url=c:/html/html34.htm">
<-will load secified file after 2o seconds. →
<br/>
<br
```

Example 1: MyFirstPage.html

Output of the above HTML code is:





Figure 2: MyFirstPage.html Output

1.3 Example: Headers.html

```
<!DOCTYPE html>
<html>
<head><title>This is the first html page</title>
<body>This is the first html page created
<h1>This is level 1 heading</h1>
<h2>This is level 2 heading</h2>
<h3>This is level 3 heading</h3>
</body>
</head></html>
```

Example 2: Headers.html



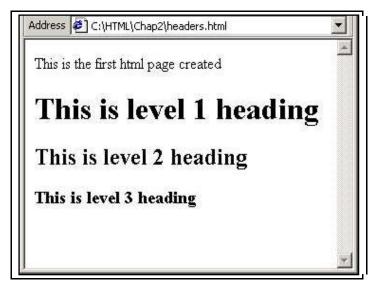


Figure 3: Headers.html Output

1.4 Example: Address.html

```
<html>
<head>
<title>Address Example</title>
</head>
<body>
<font size="2">Your address:</font><br>
Abc Xyz<br>
<address>b/102 royal palms,</address>
<address>off. s. v. road,</address>
<address>Andheri-West,</address>
</body>
</html>
```

Example 3: Address.html

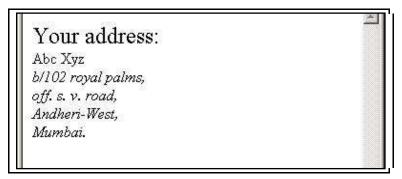


Figure 4: Address.html Output

1.5 Example: PreFormattedText.html

html:</td <td colspan="4"><!DOCTYPE html> </td>	html				
<html></html>	<html></html>				
<head><title></td><td></td><td></td><td></td></tr><tr><td>PREFORMATTED</td><td>TEXT EXAMPLE</td><td></td><td></td></tr><tr><td></title></head>					
<body></body>					
<h3>GROSS SAL</h3>	E WITH PREFORM	ATTING			
<hr/>					
<pre></pre>					
<	>GROSS SALES </td <td>b></td> <td></td>	b>			
SALESMAN	SALES	RANKI	ING		
TIM	\$10,000	2 <br< td=""><td>></td></br<>	>		
TOM	\$ 5,000	5 <br< td=""><td>></td></br<>	>		
TAMMY	\$20,000	1 <br< td=""><td>></td></br<>	>		
Each line has a ca	nrriage return after it				
<h3>GROSS SAL</h3>	E WITHOUT PREF	ORMATTING <td>3></td>	3>		
<hr/>					
<	>GROSS SALE <b< td=""><td>•</td><td></td></b<>	•			
SALESMAN	SALES	RANKING			
TIM	\$10,000	2 			
TOM	\$ 5,000	5 			
TAMMY	\$20,000	1 <bf< td=""><td>₹></td></bf<>	₹>		
I					

Example 4: PreFormattedText.html



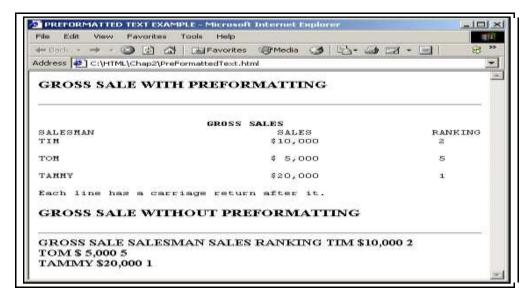


Figure 5: PreFormattedText.html Output

Problem 1: Resume Creation << To Do>>

Problem Statement:

Create your resume page as per the format shown in the figure that follows.



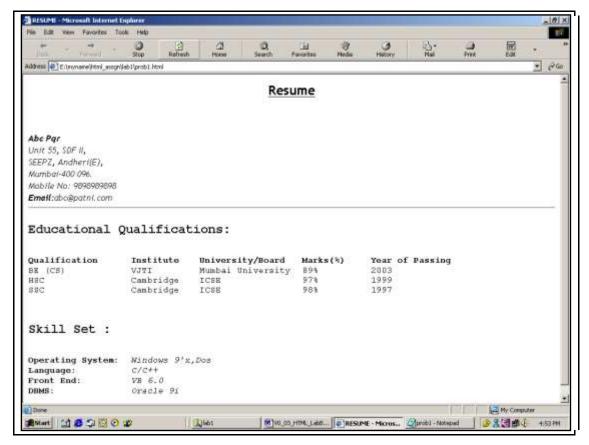


Figure 6: Resume Page

Solution:

- 1. Open **Editor**. Type the code and save the file.
- 2. Use Heading 2 for the headings "Educational Qualifications" and "Skill Set".
- 3. Use font size 3 for data pertaining to educational qualifications and skill set.
- 4. Display details against categories under Skill Set in italics.
- 5. Start the Internet Explorer. On the **File** menu, click **Open**. **File** open dialog box appears. Click the **Browse** button and select *prob2.html file*.
- 6. Check if the output is as per the requirement.



Lab 2: Creating Tables

	At the end of this lab session you will understand:	
	Attributes of a Table	
	Table Headers	
Goals	Table Data	
	Table Formatting	
	Control Table Borders	
	Grouping of Columns	
Time	90 minutes	

Problem 1: Fun with Food

Problem Statement:

Create a web page, which uses a table with columns *Fruit, Color* and *Cost per pound* as shown in the figure that follows.

Fun with food

Fruit	Color	Cost per pound
Grapes	Purple	1.25
Cherries	Red	154.79
Kiwi	Brown	10.00
This is the footer area		

Figure 7: Fruits Table

Solution

Step 1: Write the following code in Notepad and save the file.



```
<! DOCTYPE html>
<html>
<head>
  <title>Fruits Table</title>
</head>
<body>
<caption>Fun with food</caption>
<colgroup>
  <col>
</colgroup>
<colgroup>
 <col align="center">
 <col>
</colgroup>
<thead>
Fruit
   Color
  Cost per pound
</thead>
Grapes
   Purple
   1.25
```

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```
Cherries
  Red
  154.79
Kiwi
 Brown
 10.00
<tfoot>
This is the footer area
</tfoot>
</body>
</html>
```

Example 5: Fruit Table

Step 2: Open the file page in the browser to check the required output.



Problem 2: Table Heading << To Do>>

<u>Problem Statement:</u> Create a html page. When this page is opened in a browser, it should appear as shown in the following figure

Product Table

Product	Price	Quantity	Amount
P001	1000.00	12	12000.00
P002	2000.00	10	20000.00
Total	3000.00	22	32000.00

Figure 8: Product table

Note: Table heading - Background color is: navy and font color is: white.

Solution

- 1. Open **Editor**. Type the code and save the file.
- 2. Open the page in browser
- 3. Check the page shown in the browser and verify that it is as per the requirement.

Problem 3: Calendar <<To Do>>

Problem Statement:

Design a web page to display a calendar for a month using html table.

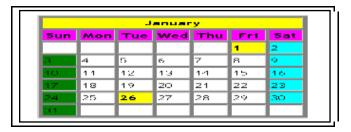


Figure 9: Calendar

Note: Background colors to be used: For all the Sundays: green, for all the Saturdays:

aqua, for 1, 26 Jan: yellow



Solution

- 1. Open **Notepad**. Type the code and save the file.
- 2. Open the page in browser.
- 3. Verify that the output is as per requirements.



Lab 3: Working with Lists

	At the end of this lab session you will be able to use following types of lists:			
	Numbered List			
Goolo	Bulleted List			
Goals	Directory List			
	Glossary List			
Time	30 minutes			

Problem 1: Types of Lists

Problem Statement:

Design a web page as shown below

The following is a demonstration of various list styles

An ordered list i.e. using OL and LI

- 9. Seepz
- 10. TTC
- 11. MIDC

Unordered list i.e. using UL and LI

- Seepz
- TTC
- MIDC

Figure 10: List



Solution

Step 1: Write the following code in Notepad and save.

```
<!DOCTYPE html>
<html>
<head>
<title>Working with Lists</title>
</head>
<body>
      The following is a demonstration of various list styles
      An ordered list i.e. using OL and LI
            Seepz
            value="10">TTC
            MIDC
      <hr>
      Unordered list i.e. using UL and LI
            Seepz
            TTC
            MIDC
      </body>
</html>
```

Example 6: Types of Lists

Step 2: Check the page shown in the browser and verify that it is as per the requirement.



Problem 2: Subjects <<To Do>>

Create a web page to display a list as shown in the figure that follows.

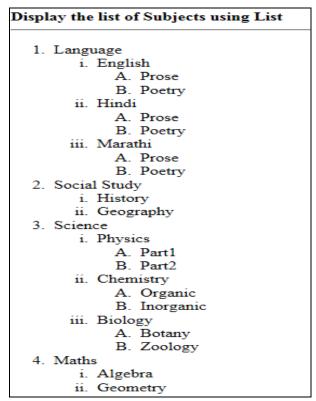


Figure 11: Subject list

Solution

- 1. Open **Notepad**. Type the code and save the file.
- 2. Open the page in browser.
- 3. Check the page shown in the browser and verify that it is as per the requirement.



Lab 4: Working with Links

	At the end of this lab session you will be able to:			
	Create links to web documents.			
Goals	Create links to email.			
	Create hyperlinks for lists and table data.			
	Provide target for hyperlink.			
Time	30 minutes			

Problem 1: Welcome to Big Company

Problem Statement:

Design a simple home page for a company with a heading and 3 links – About, Products, Contact as given in the figure below.



Figure 12: Big Company home page



When you click the "About" hyperlink, following page should be displayed.

The Big company was founded in 1956.

Figure 13: About

When you click the **Back** button on the browser toolbar, they should be redirected to the page *prob1.html*. Click the "Products" hyperlink to reach the following page:

The following are the products offered:

• Personal Health
• Beverages
• Garments
• Books

Figure 14: Products

When you click the **Back** button on the browser toolbar, they are redirected to page *prob1.html*. Click the "Contact" hyperlink. It opens Outlook Express and the e-mail address given in the *To* field, which is lnd.in@capgemini.com in the following illustration, is displayed in the New message window. This email address is specified in the *mailto* attribute.

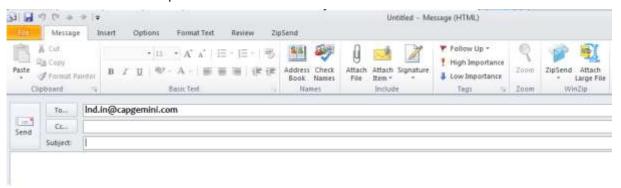


Figure 15: Contact

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Solution

Step 1: Write the following code in Notepad and save the file.

Example 7: Big Company



Step 2: Write the following code in Notepad and save it as the file.

Example 8: Products



Step 3: Write the following code in Notepad and save the file.

```
<!DOCTYPE html>
<html>
<body>
>
         <a href="about.htm">About</a><br><br>
         <a href="products.htm">Products</a><br><br>
         <a href="mailto:Ind@capgemini.com">Contact</a><br>
  <h1>Welcome to Big Company</h1>
         This is a very simple layout that would have nearly been impossible to do
         without tables
  </body>
</html>
```

Example 9: Welcome to Big Company

Step 4: Start the Internet Explorer. On the **File** menu, click **Open**. **Open** dialog box appears. Click the **Browse** button and open the page with links file. Verify if the links on the page are working as per the requirement.



Problem 2: Employee Details <<To Do>>

Problem Statement:

Design a simple home page for a company to display employee details as given below.

Empcode	Emp Name	Dept Code	Experience
1001	Kiran Rao	10	8 Yrs.
1002	Aamir Khan	<u>20</u>	5 Yrs.
1003	Ishita Shah	30	10 Yrs.

Figure 16: EmployeeDetails

When you click the department code "10" hyperlink, page with following content should be displayed.

This is Sales department located at Mumbai...

Figure 17: Sales Department

When you click the department code "20" hyperlink, page with following content should be displayed.

This is training department located at Pune...

Figure 18: Training Department

When you click the department code "30" hyperlink, page with following content should be displayed.

This is accounts department located at Chennai...

Figure 19: Accounts Department



Lab 5: Image Handling

	At the end of this lab session you will be able to:
	Understand the use of inline images.
Goals	Attributes of an inline image.
	Text and image aligning.
	Use of an image as a hyperlink.
Time	30 minutes

Problem 1: Images with Clickable Areas <<To do>>

Problem Statement:

Create a web page with some images as shown in following figure:



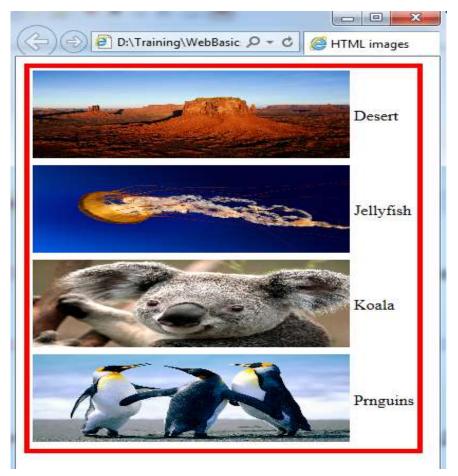


Figure 20 : Images



Lab 6: Working with Frames

Goals	At the end of this lab session you will be able to:
	Understand the need for frames in web pages.
	Create and work with frames.
	Manage large content with frame.
Time	30 minutes

Problem 1: Frames

Problem Statement:

Create a web page which allows you to click on 2 hyperlinks courses, menu in the frame on the left. When you click a link, the details are displayed in the frame on the right. The file layout.html is loaded in the frame on the left.

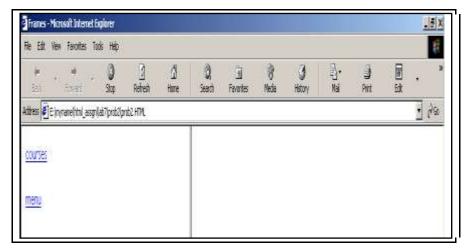


Figure 211: Frames

When you click the link "courses", the details are displayed in the frame on the right.





Figure 222: Courses

When you click the link "menu", the details are displayed in the frame on the right

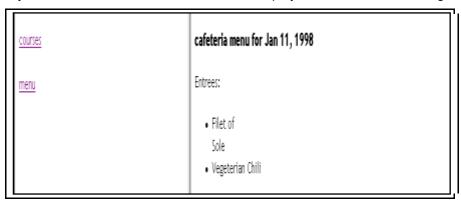


Figure 233: Menu



Solution

Step 1: Write the following code in **Notepad** and save the file.

```
<!DOCTYPE html>
<html>
<head>
<tittle>Frames</tittle>
</head>
<body>
<iframe src="content.html" width="100"></iframe>
<iframe name="side-2" width="1000"></iframe>
</body>
</html>
```

Example 10: Frames (1)

Step 2: Write the following code in **Notepad** and save it as *lab6\prob1\layout.html*.

```
<!DOCTYPE html>
<html>
<body>
<a href="courses.html" target="side-2"> courses </a><br>
<a href="menu.html" target="side-2"> menu </a>
</body>
</html>
```

Example 11: Frames (2)



Step 3: Write the following code in **Notepad** and save.

```
<html>
<head>
<tittle>Sample Page</tittle>
</head>
<body>
<h1>Header 1</h1>

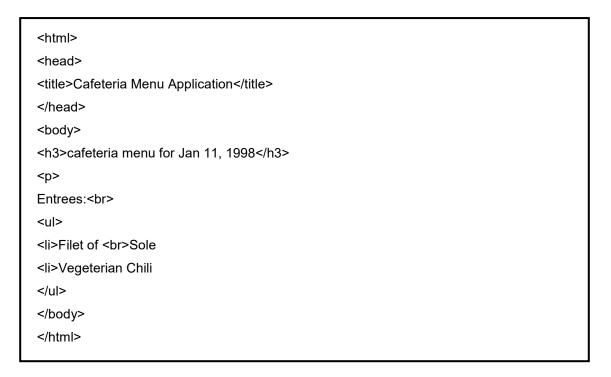
Oracle8
Web Appl Server
Designer/2000

Sample text
</body>
</html>
```

Example 12: Courses



Step 4: Write the following code in **Notepad** and save.



Example 13: Menu

Step 5: Open the file prob1\layout.html in the browser and check if the page works as per the requirement.



Lab 7: HTML Forms for User Input

Goals	At the end of this lab session you will be able to:
	Understand the role of forms in web pages.
	Understand various HTML elements used in forms.
	Develop HTML forms in web pages.
Time	45 minutes

Problem 1: Form

Problem Statement:

Design a web page *prob1.html* in the directory *lab7*. When *prob1.html* is opened in the browser, the page is displayed as shown in the figure that follows.

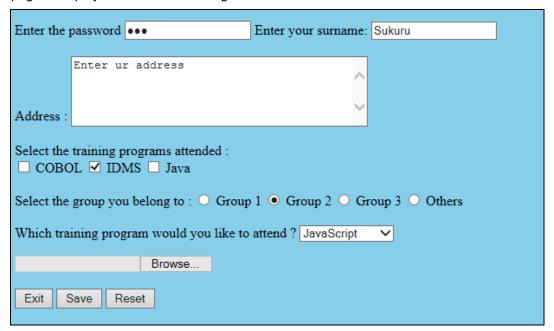


Figure 244: Forms



Solution

Step 1: Write the following code in Notepad and save it as lab6\prob1.html.

```
<!DOCTYPE html>
<html>
<head>
<title>Form Methods</title>
</head>
<body style="background-color:skyblue">
<form action="mailto:Ind.in@capgemini.com" name="ab" method="post"</pre>
enctype="multipart/form-data">
>
Enter the password
<input type="password"name="USERNAME" size="20" value="abc" tabindex="3">
<input type="hidden" name="coname" value="PCS">
Enter your surname:
<input type="text" name="surname" SIZE="20" readonly value="Sukuru" tabindex="2"</p>
maxlength="30"> <br> <br>
Address:
<textarea name="addr" Rows="5" cols="40" tabindex="0" accesskey="A">Enter ur
address </textarea>
<br> <br> Select the training programs attended : <br>>
<input type="checkbox" name="s-cobol"> COBOL
<input type="checkbox" name="s-idms" checked> IDMS
<input type="checkbox" name="s-java"> Java <br> <br>
Select the group you belong to:
<input type="radio" name="s-grp" value="grp1"> Group 1
<input type="radio" name="s-grp" value="grp2" checked> Group 2
<input type="radio" name="s-grp" value="grp3"> Group 3
<input type="radio" name="s-grp" value="oth"> Others <BR> <BR>
Which training program would you like to attend?
```

Example 14: Forms

Step 2: Open prob1.html in the browser and verify if the form is displayed as per the requirement.

Problem 2: Employee Details <<To Do>>

Problem Statement:

Design a web page *prob2.html* to accept the following employee details:

- Employee Name (Max 20 characters).
- Employee Code (Max 4 characters).
- Department (Use radio buttons).
- Date of Join (Use the format dd/mm/yyyy).
- Address.
- Training programs attended (Use check boxes).
- Training programs need to attend (Use select box).
- Send the information at empinfo@capgemini.com.



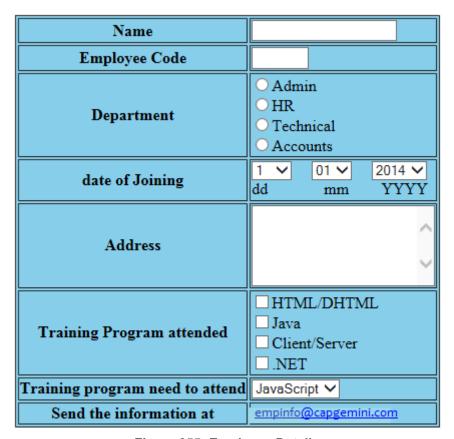


Figure 255: Employee Details

Solution

- 1. Open **Editor**. Type the code and save the file as lab7\prob2.html.
- 2. Open the page in the browser.
- 3. Verify if the output is as per the figure.



Lab 8: New Form Elements

Goals	At the end of this lab session, you will be able to:
	Develop web pages using HTML5 enhanced form elements
Time	120 minutes

Problem 1: Form

Problem Statement:

Design a web page *prob1.html* in the directory *lab8*. When *prob1.html* is opened in the browser, the page is displayed as shown in the below figure

Solution

Step 1: Write the following code in Notepad and save it as lab8\prob1.html.

```
<! DOCTYPE html>
<html>
  <head>
    <meta
             name="viewport"
                               content="height=device-height,width=device-width,user-
scalable=no" />
    <meta charset="UTF-8">
    <title>New Form Elements</title>
  </head>
  <body>
   <form name="Formelements" action="index2.jsp">
     <label for="demo">Placeholder : </label>
        <input id ="demo" name="demo" placeholder="Enter Numbers Only" />
      <label for="nameauto">Autofocus : </label>
        <input id ="nameauto" name="nameauto" type="text" autofocus/>
```

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```
<label for="range">Range : </label>

<input id="range" name="range" type="range" min="0" max="50" value="10"
/>

<label for="search">Search : </label>

<input id="search" name="search" type="search" placeholder="Search..."
/>
```

```
<label for="date">Date : </label>
          <input id="date" name="date" type="date" min="2010-08-14" max="2014-08-14"
   value=""/>
         <label for="date">Week : </label>
          <input id="date" name="date" type="week" value=""/>
         <label for="date">Month : </label>
          <input id="date" name="date" type="month" value=""/>
         ©2016 Capgemini. All rights reserved.
```



<label for="date">Time : </label>

```
<input id="date" name="date" type="time" value=""/>
    <label for="number">Number : </label>
       >
  <input id="number" name="number" type="number" step="1" min="-5" max="10"</pre>
alue="0" />
    <label for="required">Required : </label>
       ="required" name="user" type="text" required />
     <label for="email">Email:</label>
       <input id="email" name="email" type="email" required/>
     <label for="color">Color : </label>
       <input id="color" name="color" type="color" placeholder="e.g. #bbbbbb"
/>/
     <label for="country_name">Country : </label>
     <input id="country_name" name="country_name" type="text" list="country"
/>
```

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```
<country">
            <option value="Afghanistan">
            <option value="Albania">
            <option value="Algeria">
            <option value="Andorra">
            <option value="Angola">
            <option value="Car">
            <option value="Cat">
            <option value="City">
            <option value="Cup">
            <option value="Clip">
          </datalist>
          <audio controls >
               <source src= "god.mp3" type="audio/mpeg" />
               <source src= "1vs0_JuniorGroove.ogg" type="audio/ogg"/>
             </audio>
          <!-- audio code works on Firefox and opera .ogg format only
          <video
   src="http://upload.wikimedia.org/wikipedia/commons/7/79/Big_Buck_Bunny_small.ogv"
   controls width="300" height="250">
             </video>
    <!-- Video code works only on Firefox. .ogg format. various ogg file extension are
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```

Example 155: Code for New Form Elements



Placeholder:	Enter Numbers Only
Autofocus:	
Range:	=
Search:	Search
Date:	mm/dd/yyyy
Week:	Week,
Month:	,
Time:	:
Number :	0
Required:	
Email:	
Color:	
Country:	
 	0:00 🥠
	0:00
Submit Rese	et

Figure 266: New Form Elements



Problem 2: Candidate Details << To Do>>

Problem Statement:

Design a web page StudentInfoForm.html to accept the following student details:

- 1. Name (Accept only characters, Max 15 characters)
- 2. Password (Max 15 characters)
- 3. Phone number(Accept 10 digits)
- 4. Gender (Make use of radio button)
- 5. Date of Birth (Make use of date field and date of birth should not be greater than current date)
- 6. Email (Accept valid Email)
- 7. Highest Qualification (Make use of datalist to populate data like B.Tech, M.Tech, MBA, MCA, MSc, MA, BSC..)
- 8. Courses interested in (Make use of check box)
- 9. Comments to mention regarding Degree / External Certificates (Make use of textarea)
- 10. Uploading Degree / External certificates (Make use of file input type)
- 11. Use Placeholders to describe the type of input.
- 12. All fields marked (*) are mandatory



Candidate Information



All fields marked (*) are mandatory

Figure 277: Candidate Details

Solution

- 1. Open **Editor**. Type the code and save the file as lab7\prob2.html.
- 2. Open the page in the browser.
- 3. Verify if the output is as per the figure.



Appendices

Appendix A: HTML Standards

Key Things To Keep In Mind:

- HTML standards help you reach the widest possible audience.
- There are many technologies that are associated with HTML because they are used on a
 Web page or in conjunction with HTML. But these technologies are not HTML:
 - o CGI (Common Gateway Interface)
 - o Java
 - JavaScript(JavaScript is also not Java)
 - Dynamic HTML (DHTML)
 - XML (Extensible Markup Language)
 - A variety of other emerging technologies
 - o For each of it, please follow the coding conventions, specified by that technology.
- Sometimes you need to break the rules and use non-standard syntax for good reasons.
 Try to keep this to a minimum.



How to Follow HTML Standards

Identify which version of HTML you are using in your document through the DOCTYPE line at the top of your file.

See the W3C site for more information on document types and DOCTYPE statements.

The important thing to remember is that a DOCTYPE statement is essential to assist validation software in checking your document.

- Use tools (supported by W3C) that support standards. In particular, install and use the *Tidy* program or *Tidy GUI* on your computer.
- Use W3C validation markup service to check the syntax of documents you create.
- Refer to W3C for technical and syntax information.

Some Simple HTML standards:

• The names of HTML files should always end with the ".html" extension.

Example:

Good: foo.html

Bad: foo.bar

- Always include a <HTML> tag at the very beginning and a </HTML> tag at the very end
 of your HTML documents.
- Always use the <HEAD> and </HEAD> tags to define a header section in your HTML documents.
- Always give your documents a title by using the <TITLE> and </TITLE> tags in the header section of your HTML documents.
- Always use the <BODY> and </BODY> tags to define the body in your HTML
 documents, which is everything in your document between the <HTML> and </HTML>
 that is not contained in your header section.
- Use the horizontal line tag <HR> to place a horizontal line beneath any prominent headers in your documents to help them stand out from the surrounding information.

Example:

<H1>My Document's Title</H1>

<HR>

 Always include a LINK with REV="MADE" in the header section of your HTML documents identifying you as the author.



Example:

<LINK REV="MADE" HREF="mailto:your_logonid@cs.niu.edu">

- Reasonable line lengths (no greater than 80 characters).
- Attributes associated with tags must be enclosed in quotes.

Example:

 Code is written in a consistent case. All command tags should be completely capitalized, in order for the tags to stand out better from the surrounding text.

Example:

Good: This text is emphasized.

Bad: This text is emphasized.

- All code should include comment tags for readability, particularly when nested tables are used.
- Images have *alt, height*, and *width* attributes. They must be placed in the same directory as the HTML files. These images must be referenced in the code as:

Example:

Good:

bad: .

 Links are coded correctly. All "HREF=" fields in anchor tags should always be enclosed in quotes.

Example:

Good:

Bad:

• Confirm that ©, ®, ™, and SM marks are coded correctly. These special characters should always be coded using their respective ASCII codes. It should also be confirmed that the superscription of these characters is done in a consistent manner.

Example:

Please code these special characters as follows:

and Ampersand: andamp;

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® Registration: and#174;™ Trademark: and#153;

- Check links. There is nothing more frustrating to users than a broken link (except possibly the blink tag). If the review is of an entire site or a complete section of a site, it is helpful to use an automated link checker. Because there may be hundreds, or even thousands of links, the chance of missing one when checking them by hand is unacceptably high. Since Quality Assurance is not involved in the actual construction of a site, the producer/webmaster needs to verify that links are pointing to the correct pages that those pages still exist, etc.
- If you code a URL which does not specify a file name, always end the URL with a front slash (some browsers choke if you do not do this).

Example:

Good:

Good:

Bad:

Bad:

 Whenever possible, use logical formatting tags instead of physical —one. Let the client's browser figure out the best way to display the information.

Preferred: You should read the book <CITE>Neuromancer</CITE>

Preferred: This text should stand out

Discouraged: You should read the book <I>Neuromancer</I>

Preferred: This text should <BOLD>stand out</BOLD>

 Always "sign" any HTML documents that you create. Include a horizontal line and a link to your homepage (using the ADDRESS style) at the very bottom.

Example:

...and this is the end of my document's text.<P>

<HR>

 <ADDRESS>

WWW</ADDRESS>

</BODY>

</HTML>



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