

HTML Lab Book

Lab 1: HTML Basics

Goals	<ul style="list-style-type: none">• 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.

```
<!DOCTYPE html>
<html>
<head>
    <title>This is the first html page</title>
</head>
<body>
    This is the first html page created
</body>
</html>
```

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.

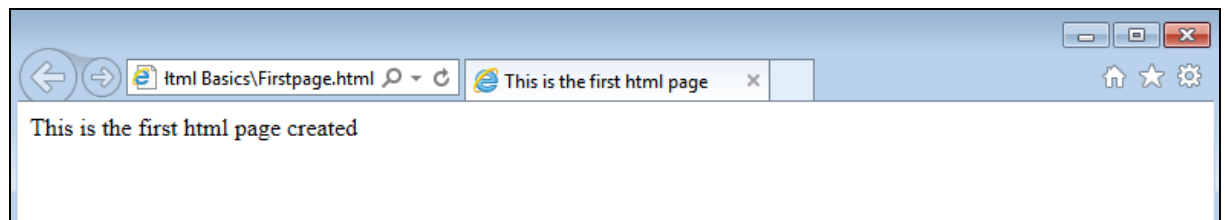


Figure 1: First.html in a browser

1.2 Example: MyFirstPage.html

```
<!DOCTYPE html>
<html>
<head>
<title>My First Page</title>
<meta [http-equiv] [contents=n]>
<meta http-equiv=refresh content=60>
<!--will refresh the current document after every 60 seconds.-->
<meta http-equiv=refresh content="20;url=c:/html/html34.htm">
<!--will load secified file after 20 seconds. →
<base href="c:/mydir/html/">
<!-- you to use shortcuts in your URLs if you must reference several files from the same
location.-->
</head>
<body> Hello World!! </body>
</html>
```

Example 1: MyFirstPage.html

Output of the above HTML code is:

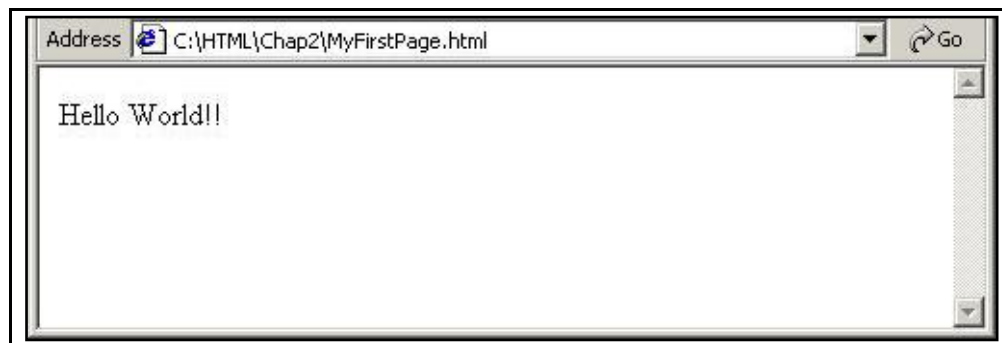


Figure 2: MyFirstPage.html Output

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

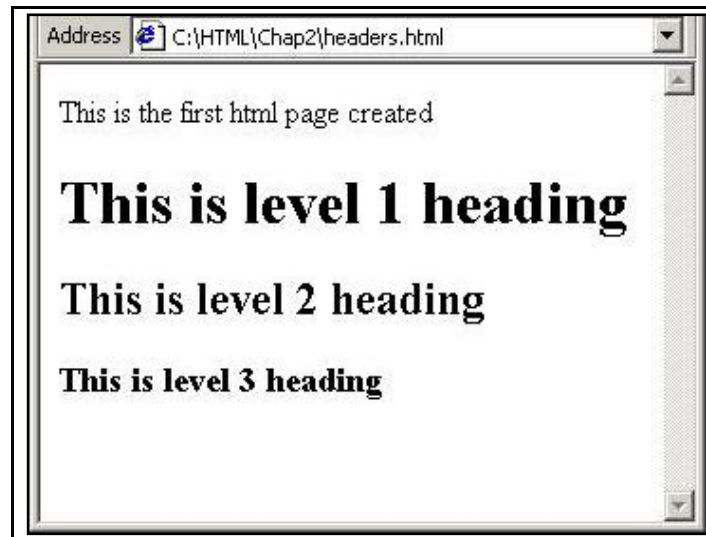


Figure 3: Headers.html Output

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><address>Mumbai.</address>  
</body>  
</html>
```

Example 3: Address.html

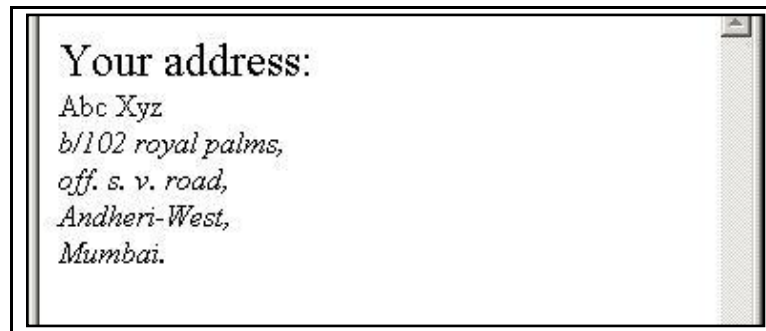


Figure 4: Address.html Output

1.5 Example: PreFormattedText.html

```

<!DOCTYPE html>
<html>
<head><title>
PREFORMATTED TEXT EXAMPLE
</title></head>
<body>
<h3>GROSS SALE WITH PREFORMATTING</h3>
<hr>
<pre>
                <b>GROSS SALES</b>

SALESMAN          SALES          RANKING
TIM                $10,000        2<BR>
TOM                $ 5,000        5<BR>
TAMMY              $20,000        1<BR>
Each line has a carriage return after it.
</pre>
<h3>GROSS SALE WITHOUT PREFORMATTING</h3>
<p><hr>
                <b>GROSS SALE<b>

SALESMAN          SALES          RANKING
TIM                $10,000        2<BR>
TOM                $ 5,000        5<BR>
TAMMY              $20,000        1<BR>
</body>

```

Example 4: PreFormattedText.html

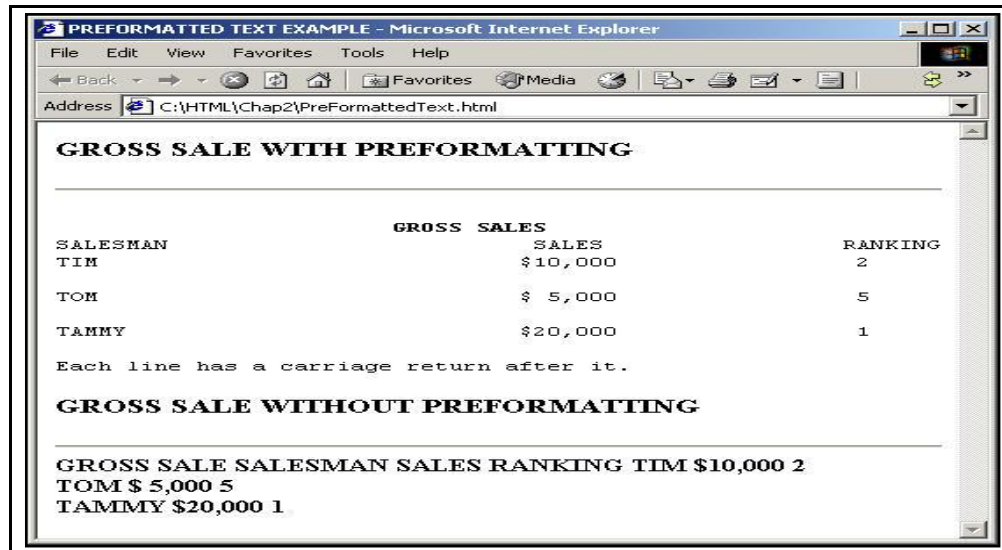


Figure 5: PreFormattedText.html Output

Problem 1: Resume Creation <<To Do>>

Problem Statement:

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

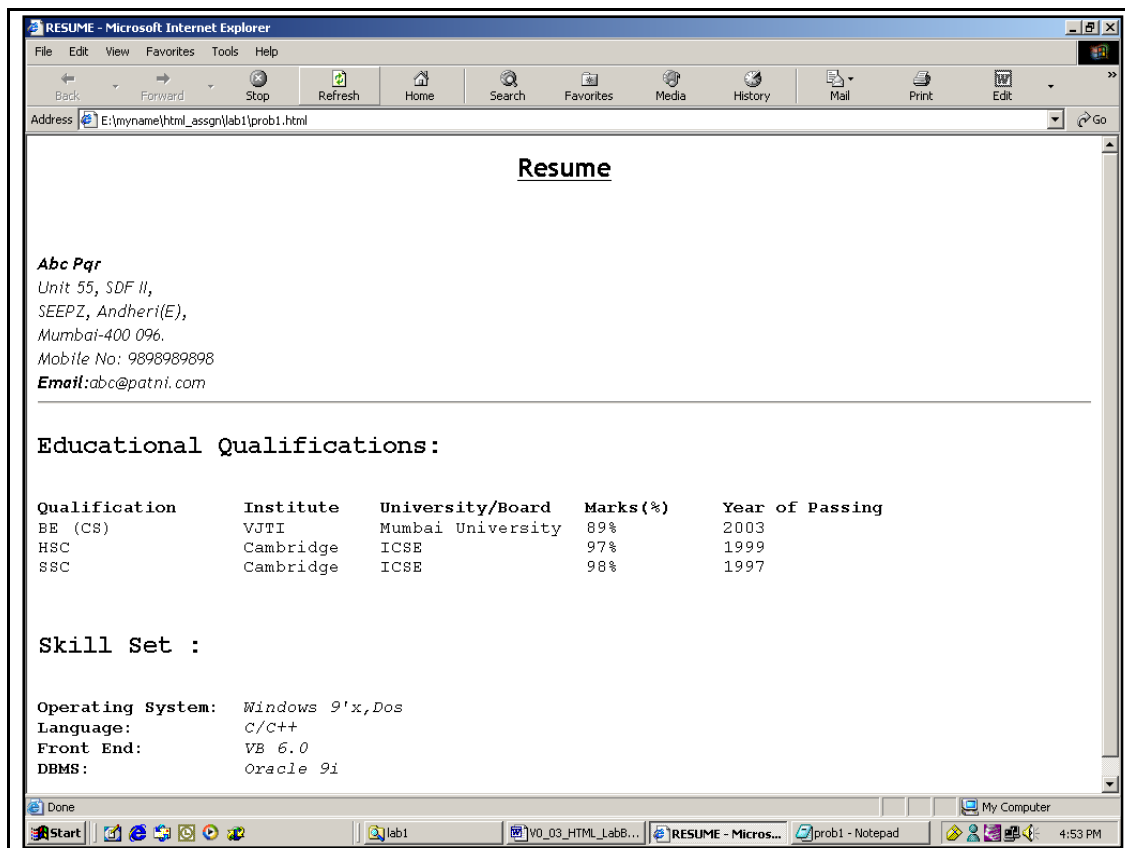


Figure 6: Resume Page

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

Goals	At the end of this lab session you will understand: <ul style="list-style-type: none">• Attributes of a Table• Table Headers• 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

Problem 2: Table Heading << To Do>>

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

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.

Problem 3: Calendar <<To Do>>

Problem Statement:

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

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Figure 9: Calendar

Note: Background colors to be used: For all the Sundays: green, for all the Saturdays: aqua, for 1, 26 Jan: yellow

Lab 3: Working with Lists

Goals	At the end of this lab session you will be able to use following types of lists: <ul style="list-style-type: none">• Numbered List• Bulleted List• Directory List• Glossary List
Time	30 minutes

Problem 1: Types of Lists

Problem Statement:

Design a web page as shown below

<p>The following is a demonstration of various list styles</p> <p>An ordered list i.e. using OL and LI</p> <ol style="list-style-type: none">9- Seepz10. TTC11. MIDC
<p>Unordered list i.e. using UL and LI</p> <ul style="list-style-type: none">▪ Seepz▪ TTC▪ MIDC

Figure 10: List

Problem 2: Subjects <<To Do>>

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

Display the list of Subjects using List	
1. Language	
i. English	
A. Prose	
B. Poetry	
ii. Hindi	
A. Prose	
B. Poetry	
iii. Marathi	
A. Prose	
B. Poetry	
2. Social Study	
i. History	
ii. Geography	
3. Science	
i. Physics	
A. Part1	
B. Part2	
ii. Chemistry	
A. Organic	
B. Inorganic	
iii. Biology	
A. Botany	
B. Zoology	
4. Maths	
i. Algebra	
ii. Geometry	

Figure 11: Subject list

Lab 4: Working with Links

Goals	At the end of this lab session you will be able to:
	<ul style="list-style-type: none">• Create links to web documents.• 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.

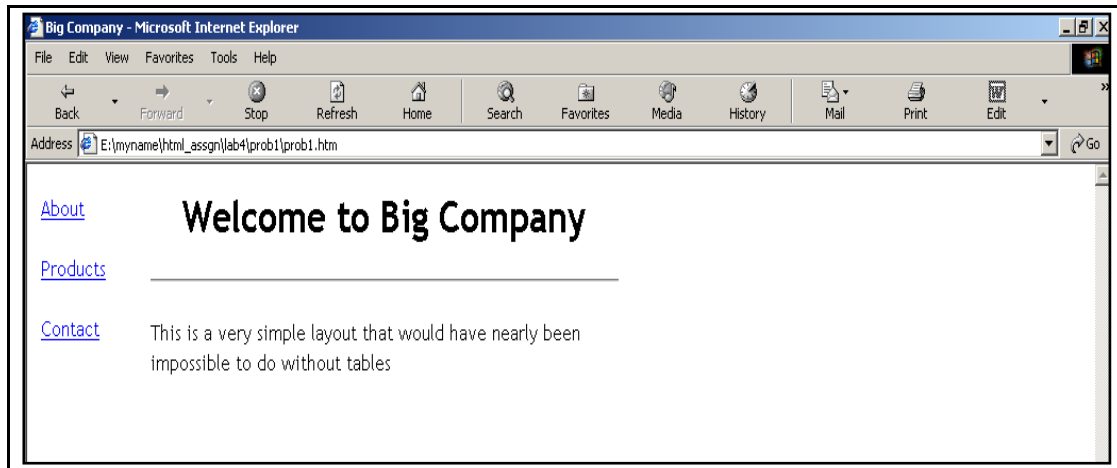


Figure 12: Big Company home page

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 Ind.in@capgemini.com in the following illustration, is displayed in the New message window. This email address is specified in the *mailto* attribute.

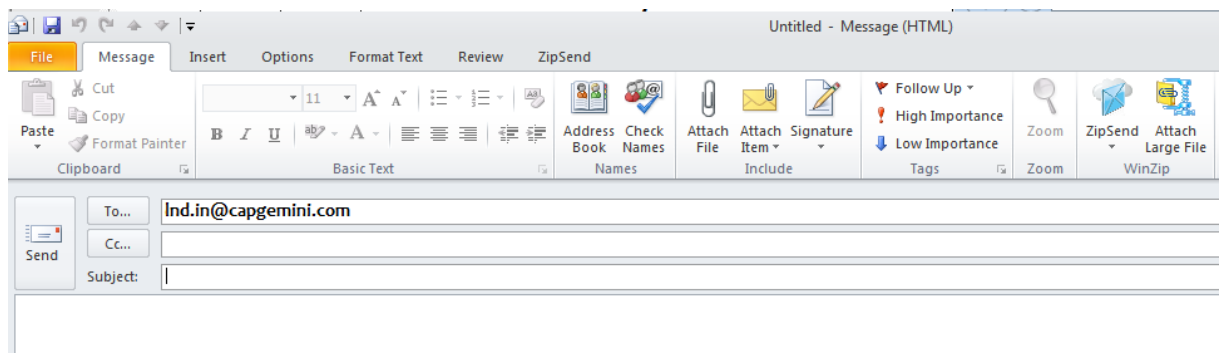


Figure 15: Contact

Lab 5: Image Handling

Goals	At the end of this lab session you will be able to: <ul style="list-style-type: none">• Understand the use of inline images.• 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: (download images from web)



Figure 16 : Images

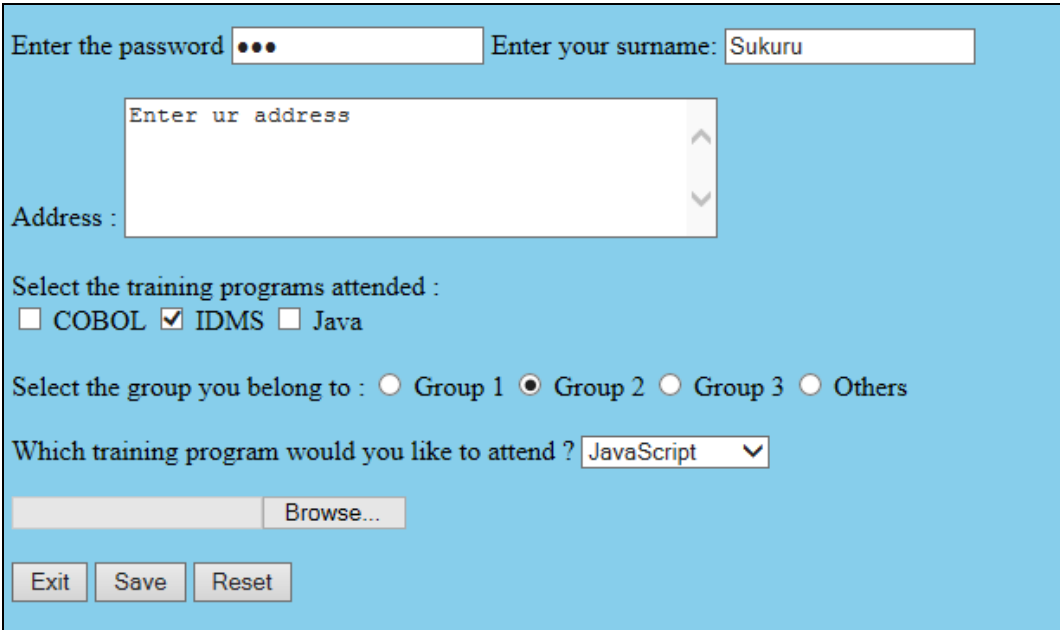
Lab 6: HTML Forms for User Input

Goals	At the end of this lab session you will be able to: <ul style="list-style-type: none">• 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.



The screenshot shows a web form with a light blue background. At the top, there are two input fields: "Enter the password" with three black dots and "Enter your surname:" with the text "Sukuru". Below these is a large text area labeled "Enter ur address" with a vertical scrollbar. To the left of this text area is the label "Address :". Below the text area, there is a section titled "Select the training programs attended :" with three checkboxes: "COBOL", "IDMS" (which is checked), and "Java". Below this is another section titled "Select the group you belong to :" with four radio buttons: "Group 1", "Group 2" (which is selected), "Group 3", and "Others". Below the radio buttons is a label "Which training program would you like to attend ?" followed by a dropdown menu showing "JavaScript". At the bottom left, there is a "Browse..." button. At the very bottom, there are three buttons: "Exit", "Save", and "Reset".

Figure 174: Forms

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 xyz@gmail.com

Name	<input type="text"/>
Employee Code	<input type="text"/>
Department	<input type="radio"/> Admin <input type="radio"/> HR <input type="radio"/> Technical <input type="radio"/> Accounts
date of Joining	<input type="text" value="1"/> <input type="text" value="01"/> <input type="text" value="2014"/> dd mm YYYY
Address	<input type="text"/>
Training Program attended	<input type="checkbox"/> HTML/DHTML <input type="checkbox"/> Java <input type="checkbox"/> Client/Server <input type="checkbox"/> .NET
Training program need to attend	<input type="text" value="JavaScript"/>
Send the information at	empinfo@capgemini.com

Figure 185: Employee Details

Lab 7: New Form Elements

Goals	At the end of this lab session, you will be able to: <ul style="list-style-type: none">• 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

for New Form

Placeholder :

Autofocus :

Range :

Search :

Date :

Week :

Month :

Time :

Number :

Required :

Email:

Color :

Country :

Elements



Figure 196: 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

Name: *	<input type="text"/>
Password: *	<input type="password"/>
Phone number: *	<input type="text"/>
Gender: *	<input type="radio"/> Male <input type="radio"/> Female
Date of Birth: *	<input type="text" value="mm/dd/yyyy"/>
Email: *	<input type="text"/>
Highest Qualification: *	Select Highest Qualification ▼
Courses Interested in: *	<input type="checkbox"/> Java <input type="checkbox"/> HTML 5 <input type="checkbox"/> CSS 3 <input type="checkbox"/> Angular JS <input type="checkbox"/> JQuery
Comments: (Mention External Certifications if any)	<div></div>
Upload Degree / External Certificates: *	<input type="button" value="Choose Files"/> No file chosen
	<input type="button" value="Submit Information"/> <input type="button" value="Clear"/>

All fields marked (*) are mandatory

Figure 207: Candidate Details

Drive Link to Upload (empld_yourname_htmllab)

https://docs.google.com/forms/d/e/1FAIpQLSc9yUSJesSmYW74rkyiDsLwzzxUh05Cgm30j7BnJ-9SbAIAQQ/viewform?usp=sf_link