



**C. U. Shah University, Wadhwan City**

**Faculty of Computer Science**

**Name of Program: Master of Science in Information Technology**

**(Web Technology)**

**Semester : I**

**W.e.f. June – 2016**

**Teaching & Evaluation Scheme**

Sr No	Subject Code	Subject Name	Teaching Hours/Week				Credits	Evaluation Scheme/Semester							
			Th	Tu	Pr	Total		Theory				Practical			Total Marks
								Sessional Exam		University Exam		Internal		Uni.	
								Mark	Hrs	Mark	Hrs	Pr	TW	Pr	
2	5CS01WWT2	Web Technologies	4	-	2	6	5	30	1.5	70	3	10	-	40	150

**Objectives:**

- Students will gain the deeply knowledge of web technologies and its uses in various criteria.
- Students will develop awareness and appreciation of the myriad ways that people access the web and will be able to create standards-based websites that are accessible and usable by a full spectrum of users.

**Pre-requisites:**HTML, CSS and JavaScript basic knowledge required.

**Course Outline:**

Chapter No.	Chapter Name	Course Contents	Lect. Hours
1.	Web terminology	1.1 ISP 1.2 IP address 1.3 MAC address 1.4 DNS 1.5 Cyberspace 1.6 WWW 1.7 W3C 1.8 Website 1.9 URL 1.10 Web Page 1.11 Home page 1.12 Proxy Server 1.13 Web Server 1.14 Web browser 1.15 HTTP 1.16 HTTPS 1.17 Web Cookie 1.18 Session 1.19 Hyperlink 1.20 Spamming	3

		<ul style="list-style-type: none"> <li>1.21 Phishing</li> <li>1.22 Hacking</li> <li>1.23 Email Scams</li> <li>1.24 SMTP</li> <li>1.25 POP3</li> <li>1.26 IMAP</li> <li>1.27 Blogs</li> <li>1.28 Wiki</li> <li>1.29 Internet Forums</li> <li>1.30 Usenet</li> </ul>	
<b>2.</b>	<b>HTML</b>	<ul style="list-style-type: none"> <li>2.1 Introduction to HTML</li> <li>2.2 HTML tags</li> <li>2.3 HTML document structure</li> <li>2.4 Document tags <ul style="list-style-type: none"> <li>2.4.1 &lt;html&gt;</li> <li>2.4.2 &lt;head&gt;</li> <li>2.4.3 &lt;title&gt;</li> <li>2.4.4 &lt;body&gt;</li> </ul> </li> <li>2.5 Colors in HTML</li> <li>2.6 Comment tag (&lt;!-- ... --&gt;)</li> <li>2.7 Heading tags(&lt;h1&gt;... &lt;h6&gt;)</li> <li>2.8 HTML Paragraph tag(&lt;p&gt;)</li> <li>2.9 Formatting tags <ul style="list-style-type: none"> <li>2.9.1 &lt;pre&gt;</li> <li>2.9.2 &lt;blockquote&gt;</li> <li>2.9.3 &lt;b&gt;</li> <li>2.9.4 &lt;i&gt;</li> <li>2.9.5 &lt;u&gt;</li> <li>2.9.6 &lt;strike&gt;</li> <li>2.9.7 &lt;tt&gt;</li> <li>2.9.8 &lt;small&gt;</li> <li>2.9.9 &lt;big&gt;</li> <li>2.9.10 &lt;strong&gt;</li> <li>2.9.11 &lt;center&gt;</li> <li>2.9.12 &lt;sub&gt;</li> <li>2.9.13 &lt;sup&gt;</li> <li>2.9.14 &lt;blink&gt;</li> <li>2.9.15 &lt;marquee&gt;</li> <li>2.9.16 &lt;em&gt;</li> <li>2.9.17 &lt;abbr&gt;</li> <li>2.9.18 &lt;address&gt;</li> <li>2.9.19 &lt;hr&gt;</li> <li>2.9.20 &lt;br&gt;</li> </ul> </li> <li>2.10 HTML images <ul style="list-style-type: none"> <li>2.10.1 &lt;img&gt;</li> <li>2.10.2 &lt;area&gt;</li> <li>2.10.3 &lt;map&gt;</li> </ul> </li> <li>2.11 HTML List <ul style="list-style-type: none"> <li>2.11.1 &lt;ol&gt;</li> <li>2.11.2 &lt;ul&gt;</li> <li>2.11.3 &lt;li&gt;</li> <li>2.11.4 &lt;lh&gt;</li> <li>2.11.5 &lt;dl&gt;</li> </ul> </li> </ul>	10

		<ul style="list-style-type: none"> <li>2.11.6 &lt;dt&gt;</li> <li>2.11.7 &lt;dd&gt;</li> <li>2.12 HTML Links and anchors <ul style="list-style-type: none"> <li>2.12.1 &lt;a&gt;</li> <li>2.12.2 relative link</li> <li>2.12.3 absolute link</li> <li>2.12.4 anchor</li> <li>2.12.5 &lt;base&gt;</li> <li>2.12.6 &lt;link&gt;</li> <li>2.12.7 links with text</li> <li>2.12.8 links with image</li> </ul> </li> <li>2.13 HTML table <ul style="list-style-type: none"> <li>2.13.1 &lt;table&gt;</li> <li>2.13.2 &lt;tr&gt;</li> <li>2.13.3 &lt;th&gt;</li> <li>2.13.4 &lt;td&gt;</li> <li>2.13.5 &lt;caption&gt;</li> </ul> </li> <li>2.14 HTML frame <ul style="list-style-type: none"> <li>2.14.1 &lt;frameset&gt;</li> <li>2.14.2 &lt;frame&gt;</li> <li>2.14.3 &lt;noframes&gt;</li> <li>2.14.4 &lt;iframe&gt;</li> </ul> </li> <li>2.15 HTML form <ul style="list-style-type: none"> <li>2.15.1 &lt;form&gt;</li> <li>2.15.2 &lt;input&gt; ,</li> <li>2.15.3 &lt;textarea&gt;</li> <li>2.15.4 &lt;select&gt;</li> <li>2.15.5 &lt;fieldset&gt;</li> <li>2.15.6 &lt;legend&gt;</li> <li>2.15.7 &lt;optgroup&gt;</li> </ul> </li> <li>2.16 HTML Layout <ul style="list-style-type: none"> <li>2.16.1 &lt;span&gt;</li> <li>2.16.2 &lt;div&gt;</li> </ul> </li> <li>2.17 HTML Refreshing and Redirecting &lt;meta&gt;</li> </ul>	
<b>3</b>	<b>CSS &amp; CSS3</b>	<ul style="list-style-type: none"> <li>3.1 Introduction</li> <li>3.2 CSS Style sheet</li> <li>3.3 CSS selector</li> <li>3.4 Types of style sheets</li> <li>3.5 CSS Unit</li> <li>3.6 CSS background Property</li> <li>3.7 CSS text Property</li> <li>3.8 CSS font Property</li> <li>3.9 CSS border Property</li> <li>3.10 CSS outline Property</li> <li>3.11 CSS margin Property</li> <li>3.12 CSS padding Property</li> <li>3.13 CSS list Property</li> <li>3.14 CSS table Property</li> <li>3.15 CSS link Property</li> <li>3.16 CSS dimension</li> <li>3.17 CSS display and visibility</li> <li>3.18 CSS positioning</li> </ul>	10

		<ul style="list-style-type: none"> <li>3.19 CSS cursor</li> <li>3.20 CSS combinators</li> <li>3.21 CSS Pseudo classes</li> <li>3.22 Horizontal and vertical menu generation using CSS</li> <li>3.23 CSS3 Introduction</li> <li>3.24 Browser specific prefixes for CSS3 Properties</li> <li>3.25 CSS3 Colors</li> <li>3.26 CSS3 Borders</li> <li>3.27 CSS3 backgrounds</li> <li>3.28 CSS3 gradients</li> <li>3.29 CSS3 text effects</li> <li>3.30 CSS3 fonts</li> <li>3.31 CSS3 2D transforms</li> <li>3.32 CSS3 transitions</li> <li>3.33 CSS3 animations</li> <li>3.34 CSS3 multiple columns</li> <li>3.35 CSS3 user interface</li> </ul>	
4	<b>HTML5</b>	<ul style="list-style-type: none"> <li>4.1 Introduction</li> <li>4.2 HTML5 history</li> <li>4.3 HTML5 new elements</li> <li>4.4 HTML5 removed elements</li> <li>4.5 HTML5 syntax</li> <li>4.6 HTML5 semantic elements</li> <li>4.7 HTML5 forms <ul style="list-style-type: none"> <li>4.7.1 Input types</li> <li>4.7.2 Form elements</li> <li>4.7.3 Form attributes</li> </ul> </li> <li>4.8 HTML5 graphics <ul style="list-style-type: none"> <li>4.8.1 Canvas</li> <li>4.8.2 SVG</li> </ul> </li> <li>4.9 HTML5 MathML</li> <li>4.10 HTML5 events</li> <li>4.11 HTML5 media <ul style="list-style-type: none"> <li>4.11.1 Audio</li> <li>4.11.2 video</li> </ul> </li> <li>4.12 HTML5 APIs <ul style="list-style-type: none"> <li>4.12.1 Geolocation</li> <li>4.12.2 Drag/drop</li> <li>4.12.3 Web storage</li> <li>4.12.4 Web workers</li> <li>4.12.5 SSI</li> </ul> </li> </ul>	7
5	<b>JavaScript</b>	<ul style="list-style-type: none"> <li>5.1 Introduction</li> <li>5.2 Characteristics of javascript</li> <li>5.3 &lt;script&gt; tag</li> <li>5.4 Comments in javascript</li> <li>5.5 Variable declaration</li> <li>5.6 Datatypes</li> <li>5.7 Javascript operators</li> <li>5.8 Dialog boxes</li> <li>5.9 Conditional statements</li> <li>5.10 Looping statements</li> </ul>	15

		<ul style="list-style-type: none"> <li>5.11 Branching statements</li> <li>5.12 User defined function <ul style="list-style-type: none"> <li>5.12.1 defining</li> <li>5.12.2 calling</li> <li>5.12.3 function with argument function with return value</li> <li>5.12.4 calling function from anchor</li> </ul> </li> <li>5.13 User defined object</li> <li>5.14 JavaScript array</li> <li>5.15 Predefined objects <ul style="list-style-type: none"> <li>5.15.1 string object</li> <li>5.15.2 date object</li> <li>5.15.3 array objet</li> <li>5.15.4 math object</li> </ul> </li> <li>5.16 JavaScript events <ul style="list-style-type: none"> <li>5.16.1 onabort</li> <li>5.16.2 onclie</li> <li>5.16.3 ondblclick</li> <li>5.16.4 onblur</li> <li>5.16.5 onfocus</li> <li>5.16.6 onchange</li> <li>5.16.7 onkeydown</li> <li>5.16.8 onkeyup</li> <li>5.16.9 onkeypress</li> <li>5.16.10onmousemove</li> <li>5.16.11onmousedown</li> <li>5.16.12onmouseout</li> <li>5.16.13onmouseover</li> <li>5.16.14onmouseup</li> <li>5.16.15onsubmit</li> <li>5.16.16onreset</li> <li>5.16.17onselect</li> <li>5.16.18onload</li> <li>5.16.19onunload</li> <li>5.16.20onresize</li> </ul> </li> <li>5.17 Timer events <ul style="list-style-type: none"> <li>5.17.1 setInterval</li> <li>5.17.2 clearInterval</li> <li>5.17.3 setTimeOut</li> <li>5.17.4 clearTimeOut</li> </ul> </li> <li>5.18 JavaScript DOM</li> <li>5.19 Document object</li> <li>5.20 History object</li> <li>5.21 Navigator object</li> <li>5.22 Form object</li> <li>5.23 Window object</li> <li>5.24 Frame object</li> </ul>	
6	<b><u>JQuery&amp; AJAX</u></b>	<ul style="list-style-type: none"> <li>6.1 Introduction</li> <li>6.2 jQuery syntax</li> <li>6.3 Ready event</li> <li>6.4 jQuery selector</li> <li>6.5 jQuery events</li> <li>6.6 jQuery effects</li> </ul>	10

		6.7 jQuery HTML 6.8 jQuery traversing 6.9 jQuery- AJAX introduction 6.10 jQuery – AJAX methods	
<b>Total Lectures</b>			<b>60</b>

**Reference books :**

1. Beginning HTML5 and CSS3 - By Richard Clark, Oli Studholme, Christopher Murphy and Vivya Manian ( Apress Publication).
2. Beginning HTML and CSS – By Rob Larsen ( Wrox Publication)
3. Beginning HTML, XHTML, CSS, and JavaScript – By Jon Duckett ( Wrox publication)
4. Beginning JavaScript and CSS Development with jQuery - By Richard York (Wrox Publication)
5. JavaScript and jQuery – By David Sawyer McFarland ( O'REILLY Publication)
6. JavaScript for Absolute Beginners – By Terry McNavage ( Apress Publication)
7. jQuery Succinctly – By Cody Lindley
8. Teach Yourself HTML5 in 10 Minutes - By Steven Holzner ( SAMS Publication)

## Program List

1. Write an HTML code to display the following output.

<p><b>Subjects of Sem-2</b></p> <ol style="list-style-type: none"><li>1. CS</li><li>2. WSL<ul style="list-style-type: none"><li>○ HTML</li><li>○ DHTML</li><li>○ CSS</li><li>○ Javascript</li><li>○ XML</li></ul></li><li>3. DS</li><li>4. Maths</li><li>5. SAD</li></ol>
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2. Write an HTML code to display the following output.

<table border="1"><tr><td>RollNo</td><td>Name</td></tr><tr><td>01</td><td>ABC</td></tr><tr><td>02</td><td>BCA</td></tr></table>	RollNo	Name	01	ABC	02	BCA
RollNo	Name					
01	ABC					
02	BCA					

3. Write an HTML code to display the following output.

1	2	3
4		5
6		7

4. Write an HTML code to display the following output.

1	4	6	8	11
	5		7	9
2		12		
3		13		
			10	14

5. Write an HTML code to display the following output.

State Of Health	Fasting Value		After Eating
	Maximum	Maximum	
Healthy	70	100	Two Hrs After Eating
Pre-Diabetes	101	126	Less than 140
Diabetes	More than 216	N/A	More than 200

6. Write an HTML code to display the following output.



**Fruit Survey**

Name

Address

Email

How many pieces of fruit do you eat per day?

0

1

2

More than 2

My favourite fruit

Apple

Banana

Plum

Pomegranate

Would you like a brochure?

7. Write an HTML code to display the following output.

**Insert Data Form**

Employee ID:

First Name:

Last Name:

Department Number:

Start Date:

Salary:

Contractor:  Yes

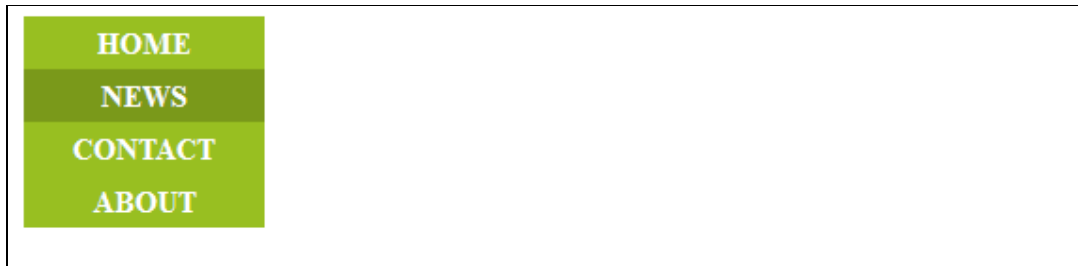
8. Write a CSS code to display the following output.

**This is heading 1**

**~~This is heading 2~~**

**This is heading 3**

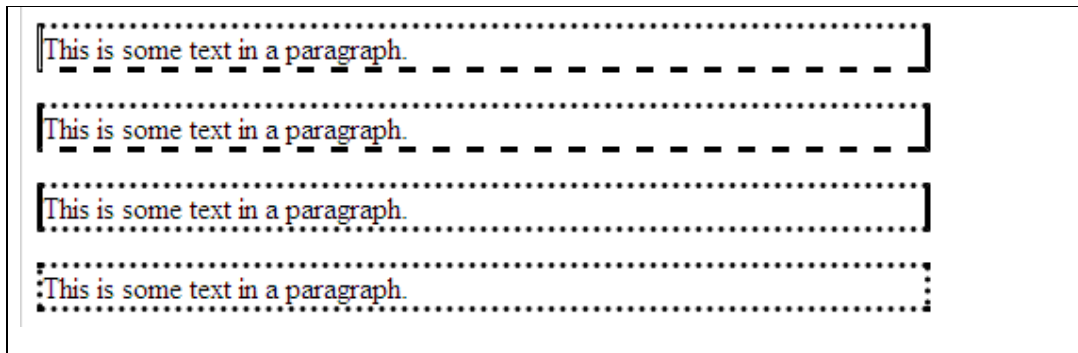
9. Write a CSS code to display the following vertical menu.



10. Write a CSS code to display the following horizontal menu.



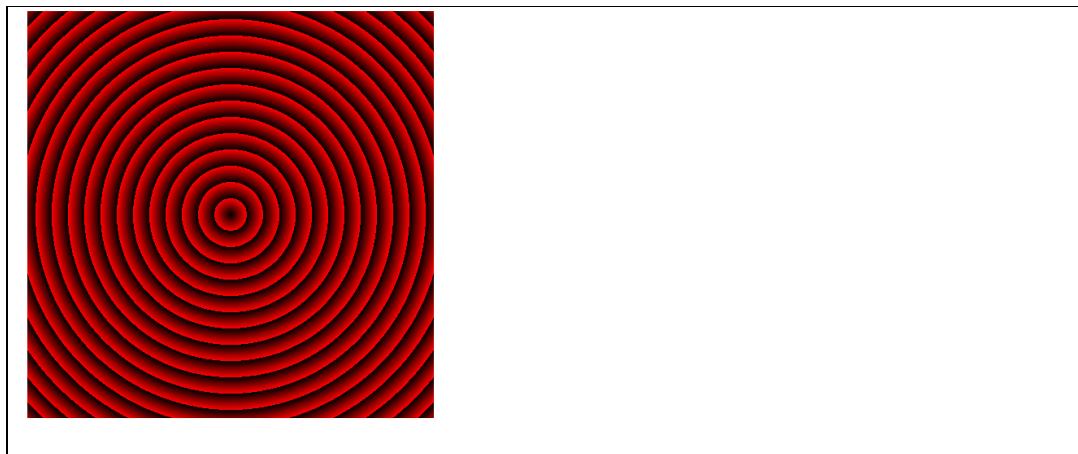
11. Write a CSS code to display the following CSS border property output.



12. Write a CSS code that demonstrates CSS combinators.

13. Write a CSS code that demonstrates CSS pseudo classes.

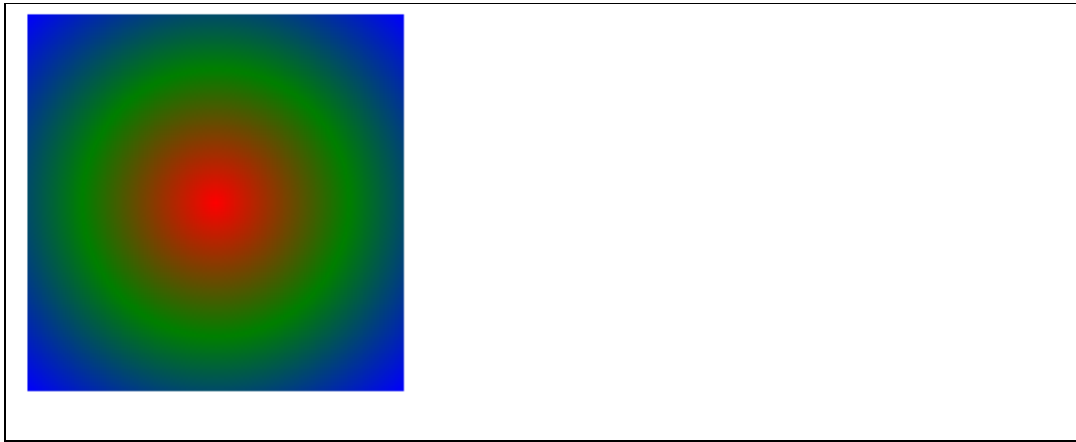
14. Write a CSS code that demonstrates radial gradient.



15. Write a css3 transition code to change small font text to large font text.

16. Write a CSS3 animation code to display "Welcome to CSS3" text in smaller font to larger font.

17. Write a CSS3 code to display the following radial gradient.



18. Write a CSS3 code to display the following output with shadow.



19. Write an HTML5 code that demonstrate HTML5 geo location object.
20. Write an HTML5 code that demonstrate HTML5 audio and video.
21. Write a Javascript code which demonstrate javascript number datatype.
22. Write a Javascript code which demonstrates dialog boxes in javascript.
23. Write a javascript code to enter five numbers using prompt dialog box store them in array and find minimum from them.
24. Write a Javascript code to demonstrate string object.
25. Write a Javascript code to demonstrate math object.
26. Write a Javascript code to demonstrate date object.
27. Write a javascript code to display hello message after every 5 seconds using timer event.
28. Write a Javascript code to change the background color of the document after every 2 seconds.
29. Write a javascript code to perform the following program.

Enter no1 :	<input type="text"/>
Enter no2 :	<input type="text"/>
<input type="button" value="+"/> <input type="button" value="-"/> <input type="button" value="*"/> <input type="button" value="/"/>	
Answer :	<input type="text"/>

30. Write a javascript code to perform the following program.

Enter no1 :	<input type="text"/>
Enter no2 :	<input type="text"/>
<input style="margin-right: 10px;" type="button" value=" &gt; "/> <input style="margin-right: 10px;" type="button" value=" &lt; "/>	
Answer :	<input type="text"/>

31. Write a javascript code to enter five elements in the array using prompt dialog box and display maximum from them.
32. Write a javascript code to perform the following output of window object.

<input type="button" value="Resizeby(200,200)"/>	<input type="button" value="ResizeTo(200,200)"/>
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33. Write a Javascript code to perform the following output.

Enter no1 :	<input type="text" value="10"/>
Enter no2 :	<input type="text" value="20"/>
<hr/>	
<input type="button" value="Add"/>	
<hr/>	
Answer :	<input type="text" value="30"/>

34. Write a javascript code to display the following output

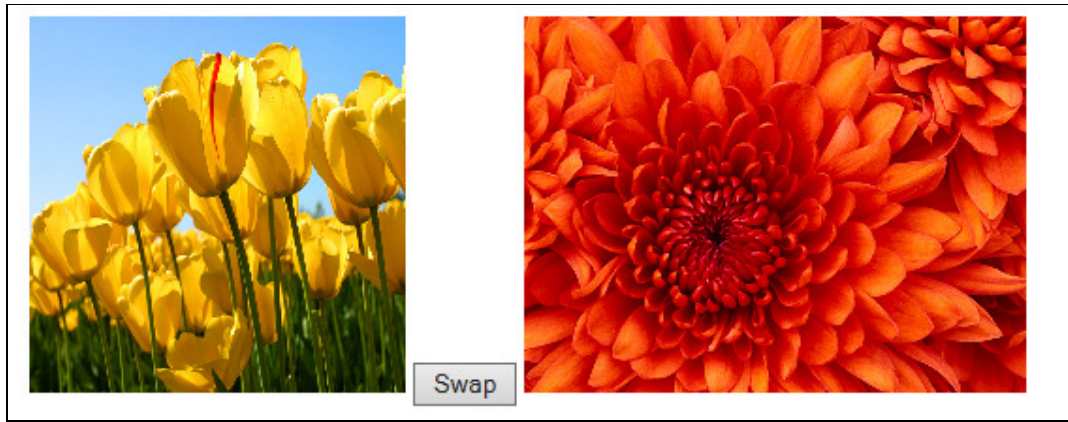
<b>Today is : Monday</b>
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35. Write a javascript code to display the following output

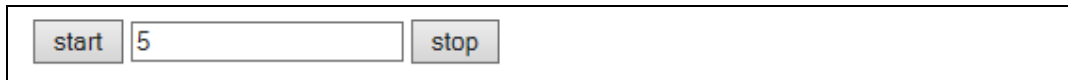
<b>Current month is : April</b>
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36. Write a javascript code to display an image. When mouse is over that image another image is displayed and mouse is out from that image the original image is displayed.

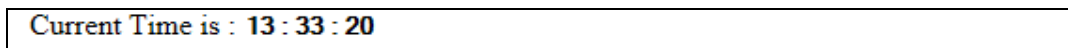
37. Write a javascript code to swap two images.



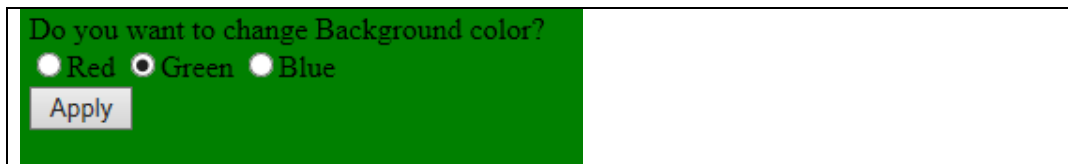
38. Write a javascript code to perform counter using timer events



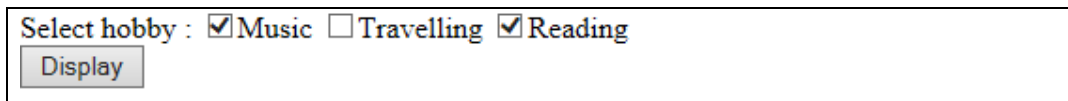
39. Write a javascript code to display the clock using timer events



40. Write a javascript code to change the background color of the page using radio button.



41. Write a javascript code to display the selected hobbies when Display button is clicked.



42. Write a javascript code to display the image when it is selected from the combobox.



43. Write a javascript code to perform the following validation.

Enter name :	<input type="text"/>
Enter Password :	<input type="password"/>
Enter Confirm password :	<input type="password"/>
<input type="button" value="Display"/>	

- Name field contains only capital & small alphabets and space.
- Both passwords must be same. If they are different, then display proper message and the focus shifts to Confirm password field.

44. Write a javascript code to perform the following validation.

Enter name :	<input type="text"/>
Enter age :	<input type="text"/>
<input type="button" value="Display"/>	

- Name field contains only capital & small alphabets and space.
- Age field contains only digits( 0-9).

45. Write a javascript code to perform the following validation.

Enter name :	<input type="text"/>
Enter mobile no :	<input type="text"/>
<input type="button" value="Display"/>	

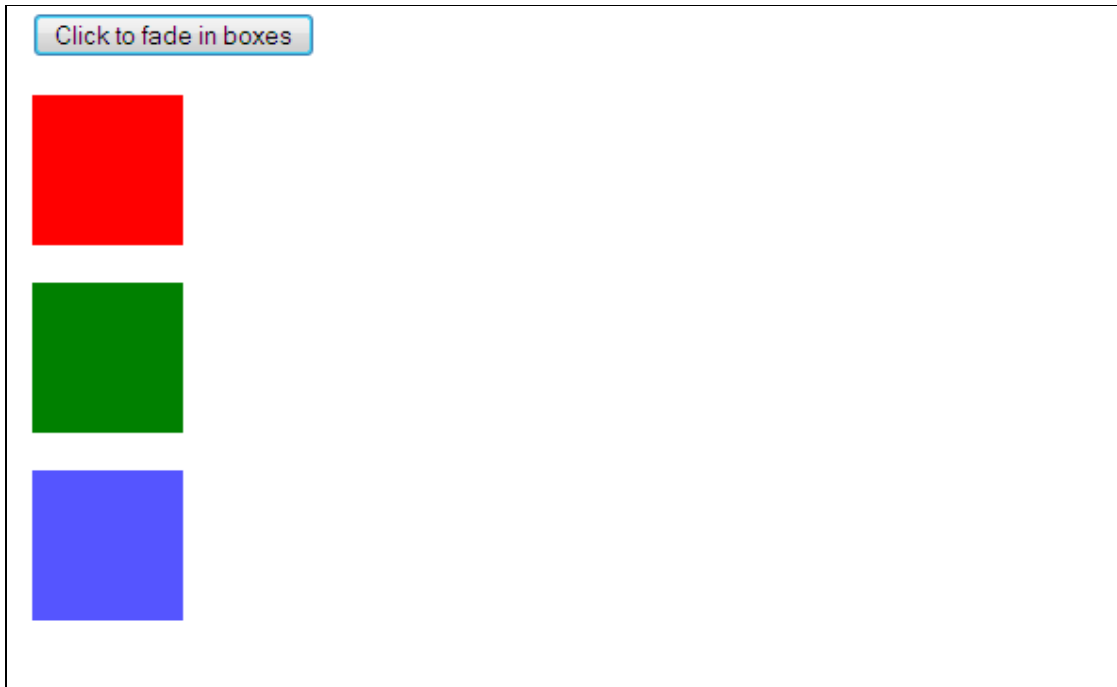
- Name field contains only capital & small alphabets and space.
- Mobile no contains only digits( 0-9) and the length of the field must be 10 other display appropriate message.

46. Write a javascript code to perform the following validation.

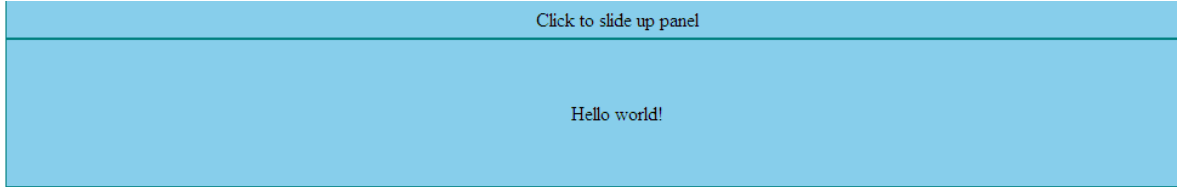
Enter name :	<input type="text"/>
Enter Email id :	<input type="text"/>
<input type="button" value="Display"/>	

- Name field contains only capital & small alphabets and space.
- Email id must be valid otherwise display appropriate message and focus shifts to the email id field.

47. Write a following JQuery code to apply Fade in effect.



48. Write a following JQuery code to apply slidetoggle effect.



49. Write a JQuery code that demonstrates mouseenter and mouseleave event.

50. Write a JQuery code to change the background color of p tag.

