



WEB DEVELOPMENT by T.V.VIGNESH



PRESENTS

# **PRE - TECHWEEKEND**

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**IEEE PRE-TECHWEEKEND**

# **WEB DEVELOPMENT**

*Web Development is  
nothing more than  
Imagination & Creativity*

**By T.V.VIGNESH**



# Things To Learn

HTML

CSS

JAVASCRIPT & LIBRARIES LIKE JQUERY

PHP/MySQL

Duration: 4 days



# Softwares Required

- 1)Wamp Server (Windows)
- 2)Notepad++



# DESIGN

## INTERACTIVITY

## STORAGE

### HTML

- Hyper Text Markup Language

### CSS

- Cascading Style Sheets

### JAVASCRIPT

- Not to be confused with JAVA

### PHP

- Hypertext Preprocessor – Server side

### MySQL

- Database Used with PHP & Many other languages



WEBSITE & WEBPAGE  
WEBSITE & WEBPAGE

Collection of webpages – Website



**CLIENT SIDE & SERVER SIDE**  
CLIENT SIDE & SERVER SIDE

## Client side

User's machine or machine which  
sends the request

## Server side

Machine hosting the website or machine  
which processes the requests



# Procedure to create a web page (in your PC)

- 1)Open Notepad++ or any similar editor
- 2)Select the Language as HTML from the Menubar
- 3)Type in the code in the editor
- 4)Go to File -> Save
- 5)Enter File Name as “filename.html” (or) “filename.htm”
- 6)Now, Open the File from the place where you saved in any browser
- 7)You will be able to see the page in browser.





# HELLO WORLD

HEΛΛΟ ΜΟΥΝΔ

```
<html>
<title>My First Web Page</title>
<head>This is my heading</head>
<body>
This is the body of my web page.
Hello world
</body>
<!--I am commented. I am not displayed-->
</html>
```



# RULES & FACTS

- 1) Every tag must be closed once opened**
- 2) HTML is not case sensitive**
- 3) In case of errors, message is not displayed**
- 4) HTML page can also contain other codes like Javascript, CSS, etc. They are called as inline codes.**
- 5) Remember saving the file and then refreshing the browser to notice any changes.**





# TAGS & SYNTAX

**Title tag - <title>Title</title>**

**Head tag - <head>Heading</head>**

**Body tag - <body>Body</body>**

**Attributes:**

**bgcolor, background, alink, vlink, link, text**

**Headings - <h1>Biggest</h1>**

**<h2>Bigger</h2>**

**<h3>Big</h3>**

**<h4>Normal</h4>**

**<h5>Small</h5>**

**<h6>Smaller</h6>**

**Line Break - <br />**



# TAGS & SYNTAX

Anchor tag (Hyperlink)- `<a>Title</a>`

Attributes:

`href, target, name, hreflang, rel`

Font - `<font>I am inside</font>`

Attributes: `color, face, size`

Bold - `<b>Bold Text</b>`

Italics - `<i>Italics Text</i>`

Underline - `<u>Underlined Text</u>`

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# TAGS & SYNTAX

**Strong - <strong>Strong Text</strong>**

**Comment - <!--Comment is not displayed-->**

**Linking - <link rel="stylesheet" href="" />**

**Paragraph - <p>This is my paragraph</p>**

**Division - <div>This is a division</div>**

**Attributes – id,class (applicable for almost all tags)**

**Span - <span>This is a division</span>**

**Attributes – id,class (applicable for almost all tags)**



# TAGS & SYNTAX

**Image Tag - **

**Attributes: alt, border, align**

**Data definition -**

```
<dl>
    <dt>Item Head</dt>
        <dd>- Item 1</dd>
    <dt>Item Head</dt>
        <dd>- Item 1 </dd>
</dl>
```

**Horizontal Rule - <hr>**

**Attributes: width, color, align**

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# TAGS & SYNTAX

**iframe –**

```
<iframe src="url" height="height" width="width">
```

**Attributes:** frameborder, name, marginheight,  
marginwidth, scrolling

**Frames -** <frameset cols="25%,\*,25%" rows="value">

```
    <frame src="url1" />
```

```
    <frame src="url2" />
```

```
    <frame src="url3" />
```

```
</frameset>
```

**Attributes:** scrolling, name





# TAGS & SYNTAX

Pre - <pre>Preformatted Text</pre>

Superscript- <sup>Superscript</sup>

Subscript - <sub>Subscript</sub>

Meta - <meta content="text" />

Attributes: name

Style - <style>Code Here</style>

Attributes: type

Script - <script>Code Here</script>

Attributes – type



# TAGS & SYNTAX

**Unordered List –**

```
<ul>  
<li>1st item</li>  
<li>2nd item</li>  
</ul>
```

**Attributes - type**

**Ordered List –**

```
<ol>  
<li>1st item</li>  
<li>2nd item</li>  
</ol>
```

**Attributes – type, start**



# TAGS & SYNTAX

Table -

```
<table>
```

```
<tr>
```

```
<td>1st row 1st column</td>
```

```
<td>1st row 2nd column</td>
```

```
</tr>
```

```
<tr>
```

```
<td>2nd row 1st column</td>
```

```
<td>2nd row 2nd column</td>
```

```
</tr>
```

```
</table>
```

**Attributes – bgcolor, background, border, align, width, height**

Column Heading - <th>Column Head</th>



# TAGS & SYNTAX

Form - <form action="url" method="method" name="frm">  
<input type="type" />

button, checkbox, file, hidden, image, password,  
radio, reset, submit, text

Attributes: size, value, disabled, maxlength,  
name, alt

Fieldset & Legend–

<fieldset>  
    <legend>Head</legend>

<fieldset>

Text area - <textarea rows="num" cols="num"></textarea>



Button - <button>Click Me</button>



# REDIRECTION

```
<meta http-equiv="Refresh" content="0;url=pg2.php" />
```

# KEYWORDS

```
<meta name="keywords" content="keyword1,keyword2">
```

# AUTHOR

```
<meta name="author" content="name of author">
```



# INTERNET EXPLORER ISSUES AND CROSS BROWSER COMPATIBILITY

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# CSS CASCADING STYLE SHEETS

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# INLINE CSS

# INLINE CSS

```
<style type="text/css">  
/*Your CSS CODE HERE*/  
</style>
```





EXTERNAL CSS  
EXTERNAL CSS

<link rel="stylesheet" href="url.css" />





COMMENTS  
COMMENTS

/\*This is my comment\*/



Selector  
**h1**

# SELECTORS

# SELECTORS

{ color:blue; font-size:12px; }

The diagram illustrates the structure of a CSS declaration block. It consists of a green rounded rectangle containing the code '{ color:blue; font-size:12px; }'. The word '{' is labeled 'Property' with an arrow pointing to it. The word 'color' is labeled 'Value' with an arrow pointing to it. The word 'font-size' is labeled 'Property' with an arrow pointing to it. The value '12px' is labeled 'Value' with an arrow pointing to it. Above the green rectangle, the word 'color:blue;' is labeled 'Declaration' with an arrow pointing to it. Above 'font-size:12px;', the word 'font-size:12px;' is also labeled 'Declaration' with an arrow pointing to it.

**ID & CLASS**  
**ID & CLASS**

**ID REFERRED AS #**  
**CLASS REFERRED AS .**  
**TAGS REFERRED BY THEIR TAGNAME**



# COLORS & CODES

СОЛОКС & КОДС

```
selector {color:blue;}  
selector {color:#00ff00;}  
selector {color:rgb(255,0,0);}
```



# STYLING TEXT

```
body {color:blue;}  
h1 {color:#00ff00;}  
h2 {color:rgb(255,0,0);}
```

```
p {text-indent:50px;}
```

```
p.uppercase {text-transform:uppercase;}  
p.lowercase {text-transform:lowercase;}  
p.capitalize {text-transform:capitalize;}
```

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# STYLING TEXT

Property	Description	Values	CSS
<a href="#">color</a>	Sets the color of a text	<i>color</i>	1
<a href="#">direction</a>	Sets the text direction	ltr rtl	2
<a href="#">line-height</a>	Sets the distance between lines	normal <i>number</i> <i>length</i> %	1
<a href="#">letter-spacing</a>	Increase or decrease the space between characters	normal <i>length</i>	1
<a href="#">text-align</a>	Aligns the text in an element	left right center justify	1
<a href="#">text-decoration</a>	Adds decoration to text	none underline overline line-through blink	1
<a href="#">text-indent</a>	Indents the first line of text in an element	<i>length</i> %	1
<a href="#">text-shadow</a>		none <i>color</i> <i>length</i>	
<a href="#">text-transform</a>	Controls the letters in an element	none capitalize uppercase lowercase	1

# STYLING TEXT

<a href="#"><u>text-transform</u></a>	Controls the letters in an element	none capitalize uppercase lowercase	1
<a href="#"><u>vertical-align</u></a>	Sets the vertical alignment of an element	baseline sub super top text-top middle bottom text-bottom <i>length</i> %	1
<a href="#"><u>white-space</u></a>	Sets how white space inside an element is handled	normal pre nowrap	1
<a href="#"><u>word-spacing</u></a>	Increase or decrease the space between words	normal <i>length</i>	1



# STYLING BACKGROUNDS

Property	Description	Values	CSS
<a href="#"><u>background</u></a>	Sets all the background properties in one declaration	<i>background-color</i> <i>background-image</i> <i>background-repeat</i> <i>background-attachment</i> <i>background-position</i> inherit	1
<a href="#"><u>background-attachment</u></a>	Sets whether a background image is fixed or scrolls with the rest of the page	scroll fixed inherit	1
<a href="#"><u>background-color</u></a>	Sets the background color of an element	<i>color-rgb</i> <i>color-hex</i> <i>color-name</i> transparent inherit	1
<a href="#"><u>background-image</u></a>	Sets the background image for an element	url( <i>URL</i> ) none inherit	1

# STYLING BACKGROUNDS

<a href="#"><u>background-position</u></a>	Sets the starting position of a background image	left top left center left bottom right top right center right bottom center top center center center bottom $x\% y\%$ <i>xpos ypos</i> inherit	1
<a href="#"><u>background-repeat</u></a>	Sets if/how a background image will be repeated	repeat repeat-x repeat-y no-repeat inherit	1

# STYLING FONTS

Property	Description	Values	CSS
<a href="#"><u>font</u></a>	Sets all the font properties in one declaration	<i>font-style</i> <i>font-variant</i> <i>font-weight</i> <i>font-size/line-height</i> <i>font-family</i> caption icon menu message-box small-caption status-bar inherit	1
<a href="#"><u>font-family</u></a>	Specifies the font family for text	<i>family-name</i> <i>generic-family</i> inherit	1
<a href="#"><u>font-size</u></a>	Specifies the font size of text	xx-small x-small small medium large x-large xx-large smaller larger <i>length</i> % inherit	1

# STYLING FONTS

<a href="#"><u>font-style</u></a>	Specifies the font style for text	normal italic oblique inherit	1
<a href="#"><u>font-variant</u></a>	Specifies whether or not a text should be displayed in a small-caps font	normal small-caps inherit	1
<a href="#"><u>font-weight</u></a>	Specifies the weight of a font	normal bold bolder lighter 100 200 300 400 500 600 700 800 900 inherit	1



# STYLING LINKS

## СТИЛИЗАЦИЯ ГИПЕРССЫЛКА

a {text-decoration:none;}

```
a:link {color:#FF0000;} /* unvisited link */  
a:visited {color:#00FF00;} /* visited link */  
a:hover {color:#FF00FF;} /* mouse over link */  
a:active {color:#0000FF;} /* selected link */
```





ALIGN  
ΑΓΙΕΝ

```
h1 {text-align:center;}  
p.date {text-align:right;}  
p.main {text-align:justify;}
```

```
margin-left:auto;  
margin-right:auto;
```



# STYLING LISTS

Property	Description	Values	CSS
<a href="#"><u>list-style</u></a>	Sets all the properties for a list in one declaration	<i>list-style-type</i> <i>list-style-position</i> <i>list-style-image</i> inherit	1
<a href="#"><u>list-style-image</u></a>	Specifies an image as the list-item marker	URL none inherit	1
<a href="#"><u>list-style-position</u></a>	Specifies if the list-item markers should appear inside or outside the content flow	inside outside inherit	1
<a href="#"><u>list-style-type</u></a>	Specifies the type of list-item marker	none disc circle square decimal decimal-leading-zero armenian georgian lower-alpha upper-alpha lower-greek lower-latin upper-latin lower-roman upper-roman inherit	1



# STYLING TABLES

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BORDER  
BORDER

**border-style**

dotted, dashed, solid, double  
**border-top-style:**

**border-width**  
**border-color**

# BORDER

## PROPERTY

Property	Description	Values	CSS
<a href="#"><u>border</u></a>	Sets all the border properties in one declaration	<i>border-width</i> <i>border-style</i> <i>border-color</i>	1
<a href="#"><u>border-bottom</u></a>	Sets all the bottom border properties in one declaration	<i>border-bottom-width</i> <i>border-bottom-style</i> <i>border-bottom-color</i>	1
<a href="#"><u>border-bottom-color</u></a>	Sets the color of the bottom border	<i>border-color</i>	2
<a href="#"><u>border-bottom-style</u></a>	Sets the style of the bottom border	<i>border-style</i>	2
<a href="#"><u>border-bottom-width</u></a>	Sets the width of the bottom border	<i>border-width</i>	1
<a href="#"><u>border-color</u></a>	Sets the color of the four borders	<i>color_name</i> <i>hex_number</i> <i>rgb_number</i> <i>transparent</i> <i>inherit</i>	1

# BORDER

## BORDERS

<a href="#"><u>border-left</u></a>	Sets all the left border properties in one declaration	<i>border-left-width</i> <i>border-left-style</i> <i>border-left-color</i>	1
<a href="#"><u>border-left-color</u></a>	Sets the color of the left border	<i>border-color</i>	2
<a href="#"><u>border-left-style</u></a>	Sets the style of the left border	<i>border-style</i>	2
<a href="#"><u>border-left-width</u></a>	Sets the width of the left border	<i>border-width</i>	1
<a href="#"><u>border-right</u></a>	Sets all the right border properties in one declaration	<i>border-right-width</i> <i>border-right-style</i> <i>border-right-color</i>	1
<a href="#"><u>border-right-color</u></a>	Sets the color of the right border	<i>border-color</i>	2
<a href="#"><u>border-right-style</u></a>	Sets the style of the right border	<i>border-style</i>	2
<a href="#"><u>border-right-width</u></a>	Sets the width of the right border	<i>border-width</i>	1

# BORDER

## PROPERTY

<a href="#"><u>border-style</u></a>	Sets the style of the four borders	none hidden dotted dashed solid double groove ridge inset outset inherit	1
<a href="#"><u>border-top</u></a>	Sets all the top border properties in one declaration	<i>border-top-width</i> <i>border-top-style</i> <i>border-top-color</i>	1
<a href="#"><u>border-top-color</u></a>	Sets the color of the top border	<i>border-color</i>	2
<a href="#"><u>border-top-style</u></a>	Sets the style of the top border	<i>border-style</i>	2
<a href="#"><u>border-top-width</u></a>	Sets the width of the top border	<i>border-width</i>	1
<a href="#"><u>border-width</u></a>	Sets the width of the four borders	thin medium thick <i>length</i> inherit	1

# OUTLINE

## ONLINE

Property	Description	Values	CSS
<a href="#"><u>outline</u></a>	Sets all the outline properties in one declaration	<i>outline-color</i> <i>outline-style</i> <i>outline-width</i> inherit	2
<a href="#"><u>outline-color</u></a>	Sets the color of an outline	<i>color_name</i> <i>hex_number</i> <i>rgb_number</i> invert inherit	2
<a href="#"><u>outline-style</u></a>	Sets the style of an outline	none dotted dashed solid double groove ridge inset outset inherit	2
<a href="#"><u>outline-width</u></a>	Sets the width of an outline	<i>thin</i> <i>medium</i> <i>thick</i> <i>length</i> inherit	2

# MARGIN

Property	Description	Values	CSS
<a href="#"><u>margin</u></a>	A shorthand property for setting the margin properties in one declaration	<i>margin-top</i> <i>margin-right</i> <i>margin-bottom</i> <i>margin-left</i>	1
<a href="#"><u>margin-bottom</u></a>	Sets the bottom margin of an element	auto <i>length</i> %	1
<a href="#"><u>margin-left</u></a>	Sets the left margin of an element	auto <i>length</i> %	1
<a href="#"><u>margin-right</u></a>	Sets the right margin of an element	auto <i>length</i> %	1
<a href="#"><u>margin-top</u></a>	Sets the top margin of an element	auto <i>length</i> %	1

# PADDING

Property	Description	Values	CSS
<a href="#"><u>padding</u></a>	A shorthand property for setting all the padding properties in one declaration	<i>padding-top</i> <i>padding-right</i> <i>padding-bottom</i> <i>padding-left</i>	1
<a href="#"><u>padding-bottom</u></a>	Sets the bottom padding of an element	<i>length</i> %	1
<a href="#"><u>padding-left</u></a>	Sets the left padding of an element	<i>length</i> %	1
<a href="#"><u>padding-right</u></a>	Sets the right padding of an element	<i>length</i> %	1
<a href="#"><u>padding-top</u></a>	Sets the top padding of an element	<i>length</i> %	1





# GROUPING & NESTING

```
h1,h2,p  
{  
color:green;  
}
```

# DIMENSIONING

Property	Description	Values	CSS
<a href="#"><u>height</u></a>	Sets the height of an element	auto <i>length</i> % inherit	1
<a href="#"><u>max-height</u></a>	Sets the maximum height of an element	none <i>length</i> % inherit	2
<a href="#"><u>max-width</u></a>	Sets the maximum width of an element	none <i>length</i> % inherit	2
<a href="#"><u>min-height</u></a>	Sets the minimum height of an element	<i>length</i> % inherit	2
<a href="#"><u>min-width</u></a>	Sets the minimum width of an element	<i>length</i> % inherit	2
<a href="#"><u>width</u></a>	Sets the width of an element	auto <i>length</i> % inherit	1



DISPLAY  
DISPLAY

**h1.hidden {visibility:hidden;}**

**h1.hidden {display:none;}**

**li {display:inline;}**

**span {display:block;}**





# POSITIONING

```
h2  
{  
position:fixed;  
top:30px;  
right:5px;  
}
```

```
h2  
{  
position:relative;  
left:-20px;  
}  
h2.pos_right  
{  
position:relative;  
left:20px;  
}
```

```
h2  
{  
position:absolute;  
left:100px;  
top:150px;  
}
```

# FLOATING

Property	Description	Values	CSS
<a href="#"><u>clear</u></a>	Specifies which sides of an element where other floating elements are not allowed	left right both none inherit	1
<a href="#"><u>float</u></a>	Specifies whether or not a box should float	left right none inherit	1



# INSPECT ELEMENT

# ИСЬЕСТ ЕГЕШЕНИ

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JAVASCRIPT

# CLIENT SIDE AND SERVER SIDE PROGRAMMING

# What is Javascript?

1. **JavaScript was designed to add interactivity to HTML pages.**
2. **JavaScript is a scripting language.**
3. **A scripting language is a lightweight programming language.**
4. **JavaScript is usually embedded directly into HTML pages.**
5. **JavaScript is an interpreted language (means that scripts execute without preliminary compilation)**
6. **Everyone can use JavaScript without purchasing a license.**

# Java and JavaScript? What's available



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SCRIPT TAG  
СКРИПТ ТАГ

## INLINE

```
<script type="text/javascript">  
//Your code  
</script>
```

## EXTERNAL

```
<script type="text/javascript" src="url.js">  
</script>
```



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document.write("hello world");



# innerHTML

```
document.getElementById('id').innerHTML="Your HTML Code Here";
```



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# SUPPORT FOR JAVASCRIPT

## СУПОРТ ДЛЯ ІВЕРСІЙ

<noscript>

OOPS! Your browser does not support Javascript

</noscript>



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# JAVASCRIPT IN HEAD TAG

```
<head>
<script type="text/javascript">
//your code
</script>
</head>
```



# FUNCTION AND DATE

## FUNCTION AND DATE

```
<html><head>
<script type="text/javascript">
function displayDate()
{
document.getElementById("demo").innerHTML=Date();
}
</script>
</head>
<body>
<h1>My First Web Page</h1>
<p id="demo"></p>
<button type="button" onclick="displayDate()">Display Date</button>
</body>
</html>
```



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# COMMENT STATEMENTS

```
<html><head>
<script type="text/javascript">
function displayDate()
{
//I am a comment. Bla bla...
/*Even I am
A comment*/
}
</script>
</head>
<body>
<button type="button" onclick="displayDate()">Display Date</button>
</body>
</html>
```



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# POPUP BOXES

## ПОПУЛЯРНЫЕ BOXES

`alert("text");`

`confirm("text");`

`prompt("sometext","defaultValue");`



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# VARIABLES AND CONCATENATION

```
<html><head>
<script type="text/javascript">
function displayDate()
{
var firstname; var num;
firstname="Hege"; num=1;
document.write("A name:"+firstname+"A number:"+num);
}
</script>
</head>
<body>
<button type="button" onclick="displayDate()">Display Date</button>
</body>
</html>
```



# AUTOMATIC DECLARATION

```
<html><head>
<script type="text/javascript">
function displayDate()
{
firstname="Hege"; num=1;
document.write("A name:"+firstname+"A number:"+num);
}
</script>
</head>
<body>
<button type="button" onclick="displayDate()">Display Date</button>
</body>
</html>
```



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# ARITHMETIC OPERATIONS

## АРИФМЕТИЧЕСКИЕ ОПЕРАЦИИ

Operator	Description	Example	Result	
+	Addition	$x=y+2$	$x=7$	$y=5$
-	Subtraction	$x=y-2$	$x=3$	$y=5$
*	Multiplication	$x=y^*2$	$x=10$	$y=5$
/	Division	$x=y/2$	$x=2.5$	$y=5$
%	Modulus (division remainder)	$x=y\%2$	$x=1$	$y=5$
++	Increment	$x=++y$	$x=6$	$y=6$
		$x=y++$	$x=5$	$y=6$
--	Decrement	$x=--y$	$x=4$	$y=4$
		$x=y--$	$x=5$	$y=4$



# ASSIGNMENT OPERATIONS

Operator	Example	Same As	Result
=	$x = y$		$x = 5$
+ =	$x += y$	$x = x + y$	$x = 15$
- =	$x -= y$	$x = x - y$	$x = 5$
* =	$x *= y$	$x = x * y$	$x = 50$
/ =	$x /= y$	$x = x / y$	$x = 2$
% =	$x \% = y$	$x = x \% y$	$x = 0$

# COMPARISONS

Operator	Description	Example (if x=5)
<code>==</code>	is equal to	<code>x==8</code> is false <code>x==5</code> is true
<code>====</code>	is exactly equal to (value and type)	<code>x====5</code> is true <code>x===="5"</code> is false
<code>!=</code>	is not equal	<code>x!=8</code> is true
<code>&gt;</code>	is greater than	<code>x&gt;8</code> is false
<code>&lt;</code>	is less than	<code>x&lt;8</code> is true
<code>&gt;=</code>	is greater than or equal to	<code>x&gt;=8</code> is false
<code>&lt;=</code>	is less than or equal to	<code>x&lt;=8</code> is true



# LOGICAL OPERATORS

Given that  $x=6$  and  $y=3$ , the table below explains the logical operators:

Operator	Description	Example
<code>&amp;&amp;</code>	and	$(x < 10 \&\& y > 1)$ is true
<code>  </code>	or	$(x==5 \mid\mid y==5)$ is false
<code>!</code>	not	$!(x==y)$ is true





# CONDITIONAL OPERATORS

```
greeting=(visitor=="PRES")?"Dear President ":"Dear ";
```

# IF/ELSE STATEMENTS



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# SWITCH STATEMENTS



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RETURN STATEMENTS  
STATEMENTS RETURN



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FOR LOOP  
ФОР ЛУП



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WHILE LOOP  
МНІГЕ ГООЬ

# JAVASCRIPT EVENTS

Attribute	The event occurs when...	IE	F	O	W3C
<a href="#"><u>onblur</u></a>	An element loses focus	3	1	9	Yes
<a href="#"><u>onchange</u></a>	The content of a field changes	3	1	9	Yes
<a href="#"><u>onclick</u></a>	Mouse clicks an object	3	1	9	Yes
<a href="#"><u>ondblclick</u></a>	Mouse double-clicks an object	4	1	9	Yes
<a href="#"><u>onerror</u></a>	An error occurs when loading a document or an image	4	1	9	Yes
<a href="#"><u>onfocus</u></a>	An element gets focus	3	1	9	Yes
<a href="#"><u>onkeydown</u></a>	A keyboard key is pressed	3	1	No	Yes
<a href="#"><u>onkeypress</u></a>	A keyboard key is pressed or held down	3	1	9	Yes
<a href="#"><u>onkeyup</u></a>	A keyboard key is released	3	1	9	Yes



# JAVASCRIPT EVENTS

<a href="#"><u>onload</u></a>	A page or image is finished loading	3	1	9	Yes
<a href="#"><u>onmousedown</u></a>	A mouse button is pressed	4	1	9	Yes
<a href="#"><u>onmousemove</u></a>	The mouse is moved	3	1	9	Yes
<a href="#"><u>onmouseout</u></a>	The mouse is moved off an element	4	1	9	Yes
<a href="#"><u>onmouseover</u></a>	The mouse is moved over an element	3	1	9	Yes
<a href="#"><u>onmouseup</u></a>	A mouse button is released	4	1	9	Yes

# JAVASCRIPT EVENTS

<a href="#"><u>onresize</u></a>	A window or frame is resized	4	1	9	Yes
<a href="#"><u>onselect</u></a>	Text is selected	3	1	9	Yes
<a href="#"><u>onunload</u></a>	The user exits the page	3	1	9	Yes

# Try & Catch Statements

```
try
{
    //Run some code here
}
catch(err)
{
    //Handle errors here
}
```



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# Special Text (Escape Sequences)

Code	Outputs
\'	single quote
\\"	double quote
\\"\\	backslash
\n	new line
\r	carriage return
\t	tab
\b	backspace
\f	form feed

WHITE SPACES ARE ALLOWED  
WHILE SPACES ARE FORMED



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# JAVASCRIPT OBJECTS

## STANDARD LIBRARIES

```
Var txt="hello world";
document.write(txt.length);
document.write(txt.toUpperCase());
document.write(txt.replace("world","ieee"));
```



# JAVASCRIPT OBJECTS

## STYLING TEXT OBJECT

```
var txt="hello";  
txt.italics()  
txt.big()  
txt.small()  
txt.bold()  
txt.italics()  
txt.fixed()  
txt.strike()
```



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# JAVASCRIPT OBJECTS

```
var txt="hello";
txt.fontcolor("green") txtfontsize(6)
txt.sub()
txt.sup()
txt.link
txt.blink()
document.write(Math.round(0.60));
```



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# BROWSER DETECTION

## ВКОМСЕК ДЕТЕКЦИОН

```
<script type="text/javascript">  
document.write("Browser CodeName: " + navigator.appCodeName);  
document.write("<br /><br />");  
document.write("Browser Name: " + navigator.appName);  
document.write("<br /><br />");  
document.write("Browser Version: " + navigator.appVersion);  
document.write("<br /><br />");  
document.write("Cookies Enabled: " + navigator.cookieEnabled);  
document.write("<br /><br />");  
document.write("Platform: " + navigator.platform);  
document.write("<br /><br />");  
document.write("User-agent header: " + navigator.userAgent);  
</script>
```



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JQUERY



# JQUERY – Javascript Library Simplifies Javascript Coding



# Google's JQUERY Cache Google's JQUERY Cache

```
<script type="text/javascript"  
src="http://ajax.googleapis.com/ajax/libs/jquery/1.4.2/jquery.min.js">  
</script>
```

# Microsoft's JQUERY Cache Microsoft's JQUERY Cache

```
<script type="text/javascript"  
src="http://ajax.microsoft.com/ajax/jquery/jquery-  
1.4.2.min.js"></script>
```



# Document.ready

```
<script type="text/javascript">
$(document).ready(function(){
    $("p").click(function(){
        $(this).hide();
    });
});
</script>
```



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# Selectors

## Selectors

`$(this).hide()`

Demonstrates the jQuery `hide()` function, hiding the current HTML element.

`$("p").hide()`

Demonstrates the jQuery `hide()` function, hiding all `<p>` elements.

`$(".test").hide()`

Demonstrates the jQuery `hide()` function, hiding all elements, with `class="test"`.

`$("#test").hide()`

Demonstrates the jQuery `hide()` function, hiding the element, with `id="test"`



# Hide H!q6

```
<script type="text/javascript">  
$(document).ready(function(){  
    $("p").click(function(){  
        $(this).hide();  
    });  
});  
</script>
```

# Attribute Selectors

**`$("[href]")` select all elements with an href attribute.**

**`$("[href='#"]")` select all elements with an href value equal to "#".**

**`$("[href!='#"]")` select all elements with an href attribute NOT equal to "#".**

**`$("[href$='.jpg']")` select all elements with an href attribute that ends with ".jpg".**



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# Selectors

Syntax	Description
<code>\$(this)</code>	Current HTML element
<code>\$("p")</code>	All <code>&lt;p&gt;</code> elements
<code>\$("p.intro")</code>	All <code>&lt;p&gt;</code> elements with <code>class="intro"</code>
<code>\$(".intro")</code>	All elements with <code>class="intro"</code>
<code>\$("#intro")</code>	The first element with <code>id="intro"</code>
<code>\$("ul li:first")</code>	The first <code>&lt;li&gt;</code> element of each <code>&lt;ul&gt;</code>
<code>\$("[href\$='.jpg'])")</code>	All elements with an <code>href</code> attribute that ends with <code>".jpg"</code>
<code>\$("div#intro .head")</code>	All elements with <code>class="head"</code> inside a <code>&lt;div&gt;</code> element with <code>id="intro"</code>

# Effects

- .toggle()
- .slideDown(speed,callback)
- .slideUp(speed,callback)
- .slideToggle(speed,callback)
- .fadeIn(speed,callback)
- .fadeOut(speed,callback)
- .fadeTo(speed,opacity,callback)
- .animate({params},[duration],[easing],[callback])

# JQUERY CSS

Method	Description
<a href="#">addClass()</a>	Adds one or more classes to selected elements
<a href="#">css()</a>	Sets or returns one or more style properties for selected elements
<a href="#">hasClass()</a>	Checks if any of the selected elements have a specified class
<a href="#">height()</a>	Sets or returns the height of selected elements
<a href="#">offset()</a>	Sets or returns the position (relative to the document) for selected elements
<a href="#">offsetParent()</a>	Returns the first parent element that is positioned
<a href="#">position()</a>	Returns the position (relative to the parent element) of the first selected element
<a href="#">removeClass()</a>	Removes one or more classes from selected elements
<a href="#">scrollLeft()</a>	Sets or returns the horizontal position of the scrollbar for the selected elements
<a href="#">scrollTop()</a>	Sets or returns the vertical position of the scrollbar for the selected elements
<a href="#">toggleClass()</a>	Toggles between adding/removing one or more classes from selected elements
<a href="#">width()</a>	Sets or returns the width of selected elements

# JQUERY HTML

Function	Description
<code>\$(selector).html(content)</code>	Changes the (inner) HTML of selected elements
<code>\$(selector).append(content)</code>	Appends content to the (inner) HTML of selected elements
<code>\$(selector).prepend(content)</code>	"Prepends" content to the (inner) HTML of selected elements
<code>\$(selector).after(content)</code>	Adds HTML after selected elements
<code>\$(selector).before(content)</code>	Adds HTML before selected elements



# OTHER LIBRARIES & NO-CONFLICT

`$.noConflict()`

## Other Libraries Available

Mootools

Scriptaculous

etc...



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JQUERY AJAX  
AJAX JQUERY

**`$(selector).load(url,data,callback)`**



# Callback Callback

The **callback parameter** is a function to be executed after the respective code has finished executing.



PHILIP



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# WAMP INSTALLATION

# INSTALLATION WAMP



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WWW FOLDER  
MMM FÖRDER



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# HELLO WORLD

HEΛΛΟ ΜΟΚΥΔ

```
<html>
```

```
<body>
```

```
<?php
```

```
echo "Hello World";
```

```
?>
```

```
</body>
```

```
</html>
```



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# COMMENTS

```
<?php  
//This is a comment  
  
/*  
This is  
a comment  
block  
*/  
?>
```



# VARIABLES

```
$var_name = value;
```

## Naming Rules for Variables

A variable name must start with a letter or an underscore "\_"

A variable name can only contain alpha-numeric characters and underscores (a-z, A-Z, 0-9, and \_)

A variable name should not contain spaces. If a variable name is more than one word, it should be separated with an underscore (\$my\_string), or with capitalization (\$myString)



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# CONCATENATION

```
<?php  
$txt1="Hello World!";  
$txt2="What a nice day!";  
echo $txt1 . " " . $txt2;  
echo strlen("Hello world!");  
echo strpos("Hello world!","world");  
?>
```



# ARITHMETIC OPERATORS

Operator	Description	Example	Result
+	Addition	$x=2$ $x+2$	4
-	Subtraction	$x=2$ $5-x$	3
*	Multiplication	$x=4$ $x*5$	20
/	Division	$15/5$ $5/2$	3 2.5
%	Modulus (division remainder)	$5\%2$ $10\%8$ $10\%2$	1 2 0
++	Increment	$x=5$ $x++$	$x=6$
--	Decrement	$x=5$ $x--$	$x=4$



# ASSIGNMENT OPERATORS

Operator	Example	Is The Same As
=	$x = y$	$x = y$
+ =	$x + = y$	$x = x + y$
- =	$x - = y$	$x = x - y$
* =	$x^* = y$	$x = x^* y$
/ =	$x / = y$	$x = x / y$
. =	$x. = y$	$x = x. y$
% =	$x \% = y$	$x = x \% y$



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# COMPARISON OPERATORS

## СОМПАРИЗАЦИОННЫЕ ОПЕРАТОРЫ

Operator	Description	Example
<code>==</code>	is equal to	<code>5==8</code> returns false
<code>!=</code>	is not equal	<code>5!=8</code> returns true
<code>&lt;&gt;</code>	is not equal	<code>5&lt;&gt;8</code> returns true
<code>&gt;</code>	is greater than	<code>5&gt;8</code> returns false
<code>&lt;</code>	is less than	<code>5&lt;8</code> returns true
<code>&gt;=</code>	is greater than or equal to	<code>5&gt;=8</code> returns false
<code>&lt;=</code>	is less than or equal to	<code>5&lt;=8</code> returns true



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# LOGICAL OPERATORS

Operator	Description	Example
<code>&amp;&amp;</code>	and	<code>x=6 y=3(x &lt; 10 &amp;&amp; y &gt; 1) returns true</code>
<code>  </code>	or	<code>x=6 y=3(x==5    y==5) returns false</code>
<code>!</code>	not	<code>x=6 y=3!(x==y) returns true</code>



# ARRAYS

```
<?php  
$a=array("Dog","Cat","Horse");  
print_r($a);  
?>
```

```
<?php  
$cars[0]="Saab";  
$cars[1]="Volvo";  
$cars[2]="BMW";  
$cars[3]="Toyota";  
?>
```



# ASSOCIATIVE ARRAYS

```
<?php  
$ages = array("Peter"=>32, "Quagmire"=>30, "Joe"=>34);  
print_r($a);  
?>
```

```
<?php  
$ages['Peter'] = "32";  
$ages['Quagmire'] = "30";  
$ages['Joe'] = "34";  
?>
```



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# DIE STATEMENT

//stops executing the script (terminates)  
die ("Message or HTML to be displayed");

IF ELSE  
IF ELSE

```
<?php
$d=date("D");
if ($d=="Fri")
echo "Have a nice weekend!";
else
echo "Hi there!";
?>
```



# SWITCH CASE

**switch (n)**

{

**case *label1*:**

*code to be executed if n=label1;*

**break;**

**case *label2*:**

*code to be executed if n=label2;*

**break;**

**default:**

*code to be executed if n is different from both label1 and label2;*

}



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# FOR LOOP

```
<?php  
for ($i=1; $i<=5; $i++)  
{  
echo "The number is " . $i . "<br />";  
}  
?>
```



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# FOR EACH LOOP FOR EACH ГООЬ

```
<?php
$x=array("one","two","three");
foreach ($x as $value)
{
echo $value . "<br />";
}
?>
```



# WHILE LOOP

## МНІГЕ ГОЛЬ

```
<?php  
$i=1;  
while($i<=5)  
{  
echo "The number is " . $i . "<br />";  
$i++;  
}  
?>
```



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# FUNCTIONS

```
<?php  
function writeName()  
{  
echo "VIGNESH";  
}  
?
```

```
echo "My name is ";  
writeName();  
?>
```



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# FUNCTIONS WITH PARAMETERS

## ФУНКЦИИ С ПАРАМЕТРАМИ

```
<?php  
function writeName($fname)  
{  
echo $fname . " and I look great.<br />";  
}  
echo "My name is ";  
writeName("VIGNESH");  
echo "My name is ";  
writeName("ABHINAV");  
?>
```



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# RETURNING VALUES

```
<?php  
function add($x,$y)  
{  
    $total=$x+$y;  
    return $total;  
}
```

```
echo "1 + 3 = " . add(1,3);  
?>
```



# FORMS & METHODS

<!--THE HTML CODE FOR FORMS-->

```
<html>
```

```
<body>
```

```
<form action="welcome.php" method="post">
```

```
Name: <input type="text" name="fname" />
```

```
Age: <input type="text" name="age" />
```

```
<input type="submit" />
```

```
</form>
```

```
</body>
```

```
</html>
```



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# GET AND POST METHODS

//GET METHOD

```
$var=$_GET["name1"];
$var1=$_GET["name2"];
```

//POST METHOD

```
$var=$_POST["name1"];
$var1=$_POST["name2"];
```



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# FORMS & METHODS

<!--THE PHP CODE FOR THE FORM-->

```
<html>
```

```
<body>
```

```
Welcome <?php echo $_POST["fname"]; ?>!<br />
```

```
You are <?php echo $_POST["age"]; ?> years old.
```

```
</body>
```

```
</html>
```



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# REQUIRE AND INCLUDE ΚΕΩΝΙΚΕ ΑΝΔ ΙΝΓΟΝΔΕ

```
<html>
```

```
<body>
```

```
<?php include("header.php"); ?>
```

```
<h1>Welcome to my home page!</h1>
```

```
<p>Some text.</p>
```

```
</body>
```

```
</html>
```

**<!--For require, replace the word require by include-->**



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# FILE HANDLING

```
<html>
<body>
<?php
$file=fopen("welcome.txt","r");
?>
</body>
</html>
```



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# FILE HANDLING

Modes	Description
r	Read only. Starts at the beginning of the file
r+	Read/Write. Starts at the beginning of the file
w	Write only. Opens and clears the contents of file; or creates a new file if it doesn't exist
w+	Read/Write. Opens and clears the contents of file; or creates a new file if it doesn't exist
a	Append. Opens and writes to the end of the file or creates a new file if it doesn't exist
a+	Read/Append. Preserves file content by writing to the end of the file
x	Write only. Creates a new file. Returns FALSE and an error if file already exists
x+	Read/Write. Creates a new file. Returns FALSE and an error if file already exists



# FILE HANDLING

```
<html>
<body>
<?php
$file=fopen("welcome.txt","r") or exit("Unable to open file!");
?>
</body>
</html>
```

```
<?php
$file = fopen("test.txt","r");
```

//some code to be executed

```
fclose($file);
?>
```



# FILE HANDLING

```
<!-- if (feof($file)) echo "End of file"; -->
```

```
<?php  
$file = fopen("welcome.txt", "r") or exit("Unable to  
open file!");  
//Output a line of the file until the end is reached  
while(!feof($file))  
{  
echo fgets($file). "<br />";  
}  
fclose($file);  
?>
```



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# FILE HANDLING

```
<?php  
$file=fopen("welcome.txt","r") or exit("Unable to open  
file!");  
while (!feof($file))  
{  
echo fgetc($file);  
}  
fclose($file);  
?>
```



# COOKIE HANDLING

**setcookie(name, value, expire, path, domain);**

```
<?php  
setcookie("user", "vignesh", time()+3600);  
?>
```

```
<?php  
// Print a cookie  
echo $_COOKIE["user"];  
  
// A way to view all cookies  
print_r($_COOKIE);  
?>
```

# DELETING COOKIES

# DEFINING COOKIES

```
<?php  
// set the expiration date to one hour ago  
setcookie("user", "", time()-3600);  
?>
```



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COOKIE SUPPORT  
COOKIE əпъょкт



# PHP MAIL

## mail(to,subject,message,headers,parameters)

Parameter	Description
to	Required. Specifies the receiver / receivers of the email
subject	Required. Specifies the subject of the email. <b>Note:</b> This parameter cannot contain any newline characters
message	Required. Defines the message to be sent. Each line should be separated with a LF (\n). Lines should not exceed 70 characters
headers	Optional. Specifies additional headers, like From, Cc, and Bcc. The additional headers should be separated with a CRLF (\r\n)
parameters	Optional. Specifies an additional parameter to the sendmail program

# PHP MAIL

```
<?php  
$to = "someone@example.com";  
$subject = "Test mail";  
$message = "Hello! This is a simple email  
message.";  
$from = "tvvignesh@techahoy.in";  
$headers = "From: $from";  
mail($to,$subject,$message,$headers);  
echo "Mail Sent.";  
?>
```



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# FILE UPLOAD HTML

```
<html>
<body>
<form action="upload_file.php" method="post"
enctype="multipart/form-data">
<label for="file">Filename:</label>
<input type="file" name="file" id="file" />
<br />
<input type="submit" name="submit" value="Submit" />
</form>
</body>
</html>
```



# FILE UPLOAD

```
<?php
if ($_FILES["file"]["error"] > 0)
{
echo "Error: " . $_FILES["file"]["error"] . "<br />";
}
else
{
echo "Upload: " . $_FILES["file"]["name"] . "<br />";
echo "Type: " . $_FILES["file"]["type"] . "<br />";
echo "Size: " . ($_FILES["file"]["size"] / 1024) . " Kb<br />";
echo "Stored in: " . $_FILES["file"]["tmp_name"];
}
?>
```



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# FILE UPLOAD

**`$_FILES["file"]["name"]` - the name of the uploaded file**

**`$_FILES["file"]["type"]` - the type of the uploaded file**

**`$_FILES["file"]["size"]` - the size in bytes of the uploaded file**

**`$_FILES["file"]["tmp_name"]` - the name of the temporary copy of the file stored on the server**

**`$_FILES["file"]["error"]` - the error code resulting from the file upload**



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# FILE MOVING

## FILE MOVING

**move\_uploaded\_file**

```
($_FILES["file"]["tmp_name"],"upload/" . $_FILES["file"]["name"]);
```



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The MySQL logo is displayed in a large, bold, three-dimensional font. The letters are a warm orange color, suggesting a sunset or fire. The letters are slightly transparent, allowing a dark background to be seen through them. The logo consists of the word "MySQL" stacked vertically, with a reflection of the letters below it.

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# MySQL Connect

`mysql_connect(servername,username,password);`

```
<?php
$con = mysql_connect("localhost","vignesh","abc");
if (!$con)
{
die('Could not connect: ' . mysql_error());
}
// some code
mysql_close($con);
?>
```



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# INSERTION

```
<?php  
$con = mysql_connect("localhost","vignesh","abc");  
if (!$con)  
{  
die('Could not connect: ' . mysql_error());  
}  
  
mysql_select_db("my_db", $con);  
  
mysql_query("INSERT INTO Persons (FirstName, LastName, Age)  
VALUES ('Peter', 'Griffin', '35')");  
  
mysql_query("INSERT INTO Persons (FirstName, LastName, Age)  
VALUES ('Glenn', 'Quagmire', '33')");  
  
mysql_close($con);  
?>
```



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# SELECTION

```
<?php  
$con = mysql_connect("localhost","vignesh","abc");  
if (!$con)  
{ die('Could not connect: ' . mysql_error()); }  
mysql_select_db("my_db", $con);  
  
$result = mysql_query("SELECT * FROM Persons");  
  
while($row = mysql_fetch_array($result))  
{  
echo $row['FirstName'] . " " . $row['LastName'];  
echo "<br />";  
}  
mysql_close($con);  
?>
```



# WHERE CLAUSE

```
<?php  
$con = mysql_connect("localhost","vignesh","abc");  
if (!$con)  
{  
die('Could not connect: ' . mysql_error());  
}  
  
mysql_select_db("my_db", $con);  
  
$result = mysql_query("SELECT * FROM Persons WHERE FirstName='Peter'");  
  
while($row = mysql_fetch_array($result))  
{  
echo $row['FirstName'] . " " . $row['LastName'];  
echo "<br />";  
}  
?>
```



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# ORDER BY

```
<?php
$con = mysql_connect("localhost","vignesh","abc");
if (!$con)
{
die('Could not connect: ' . mysql_error());
}

mysql_select_db("my_db", $con);

$result = mysql_query("SELECT * FROM Persons ORDER BY age");

while($row = mysql_fetch_array($result))
{
echo $row['FirstName'];
echo " " . $row['LastName'];
echo " " . $row['Age'];
echo "<br />";
}

mysql_close($con);
?>
```



# UPDATE

```
<?php  
$con = mysql_connect("localhost","vignesh","abc");  
if (!$con)  
{  
die('Could not connect: ' . mysql_error());  
}  
  
mysql_select_db("my_db", $con);  
  
mysql_query("UPDATE Persons SET Age = '36'  
WHERE FirstName = 'Peter' AND LastName = 'Griffin'");  
  
mysql_close($con);  
?>
```



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# DELETE

# DELETE

```
<?php  
$con = mysql_connect("localhost","vignesh","abc");  
if (!$con)  
{  
die('Could not connect: ' . mysql_error());  
}  
  
mysql_select_db("my_db", $con);  
  
mysql_query("DELETE FROM Persons WHERE LastName='Griffin'");  
  
mysql_close($con);  
?>
```

HUH!! ITS OVER!  
ΗΟΗΙ ΙΤΣ ΟΛΕΚΙ



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# PROBLEM STATEMENT ПРОБЛЕМНАЯ СТАТИСТИКА



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# REFERENCES REFERENCE<sup>S</sup>

## W3SCHOOLS

<http://www.w3schools.com>



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# CONTACT DETAILS

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# FEEDBACK!



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