Web Technology Fundamentals

Module Number: 3

Module Name: HTML and PHP

AIM:

To get familiarize about the usage of PHP handling and HTML using Mark UP Language

Objectives:

- Hypertext Mark up language
- Link List, tables and forms
- Create Web pages through HTML
- Principles of SQL

Outcome:

- How to create Web pages using HTML
- Procedures of PHP Handling
- How to display table and forms
- SQL Functions and its features

Contents

- 1. Part I An Introduction to Markup Languages
 - HyperText Markup Language HTML
 - Basics of HyperText Markup Language
 - Links, Lists, Tables, Frames and Forms
- 2. Part II PHP and MySQL
 - Introduction
 - PHP Basics
 - PHP Form Handling
 - PHP/MySQL Functions
 - Displaying Queries in Tables

Building Forms from Queries

Part I - Mark-up Languages What is a Mark-up Languages?



Example – writing an essay **Paragraphs Essay outline** Orientate the reader identify Consider the example of writing an the focus/purpose outline Introduction essay, it is marked up as: scope state thesis **Topic Sentence 1 Introduction Section** Supporting details concluding sentence 1 **Body Section Topic Sentence 2 Conclusion Section** Supporting details **Body** concluding sentence 2 Markup is formatting the data you Topic Sentence 3 and so have into the proper format. on Supporting details concluding sentence 3 **Restate thesis summarise** Conclusion argument



A Markup language is?

So Markup languages are.

Formatting and processing text includes:

- 1. Putting text in paragraphs
- 2. Dividing it into sections 3. Giving headings and subheadings
- 4. Highlight the important words.
- 5. Creating lists and tables.

<section>

Document title <h1:

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

I I <section>

Important heading <h1>

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

<section>

111

Less important heading <h1>

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Some Popular Markup languages

The code used to specify the formatting is called tags.



Hyper Text Markup language



eXtensible Markup Language



eXtensible Hyper Text Markup Language

Know More

Mark up Languages



The link is an article about markup languages, it looks at three markup languages – HTML, XML and XHTML.

Topic	URL
History about Mark up languages	https://alistapart.com/article/a-brief- historyof-markup

Self Assessment Questions

- 1. An example of a markup language is ______.
 - a) C++
 - b) XHTML
 - c) Java
 - d) Python

Answer: b)

2. Marking up a document includes:

- a) Dividing the content into various sections.
- b) Writing data in tabular form wherever appropriate.
- c) Creating images.
- d) Giving heading to each section.

Answer: a), b), d).

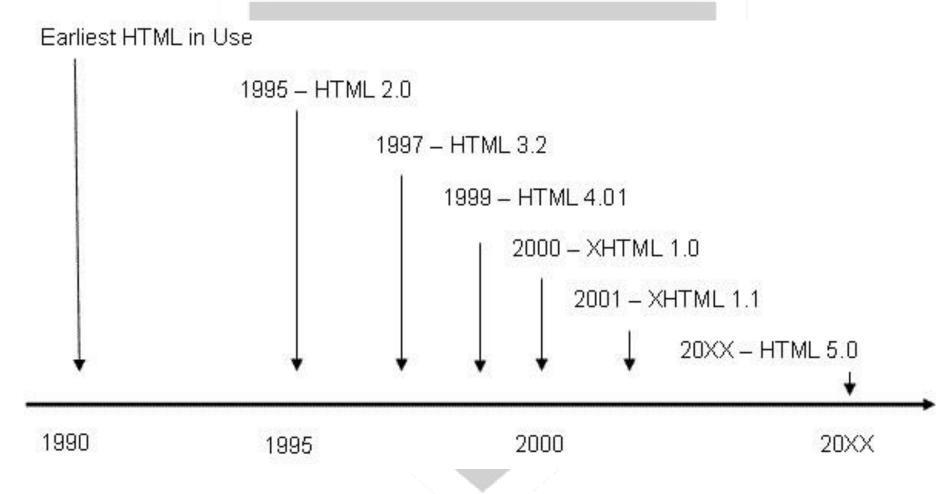
Hyper Text Mark-up Language

HTML





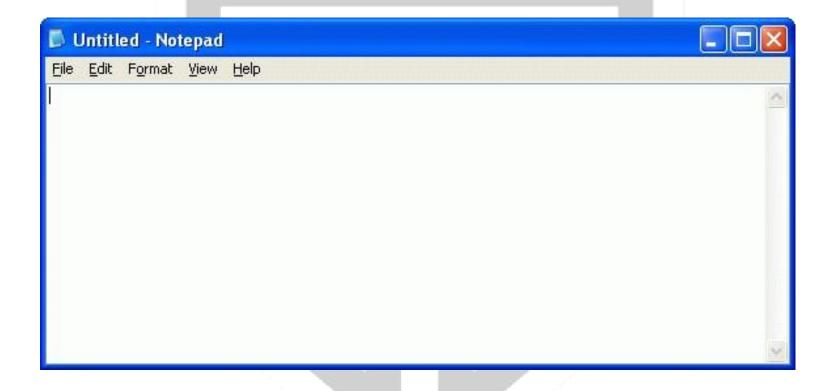
Evolution of HTML



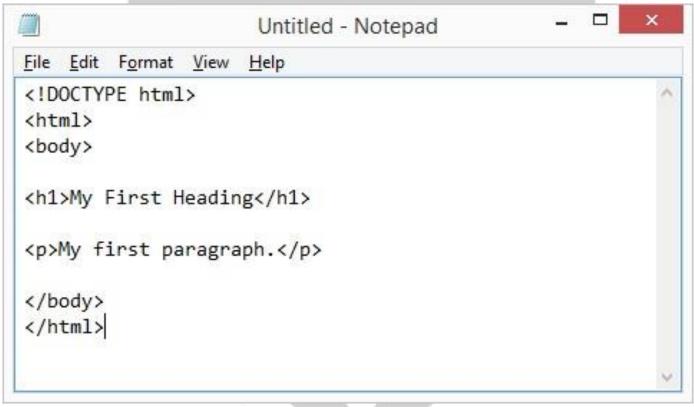
How to create and view an HTML document?

The following slides show the steps to create an HTML document.

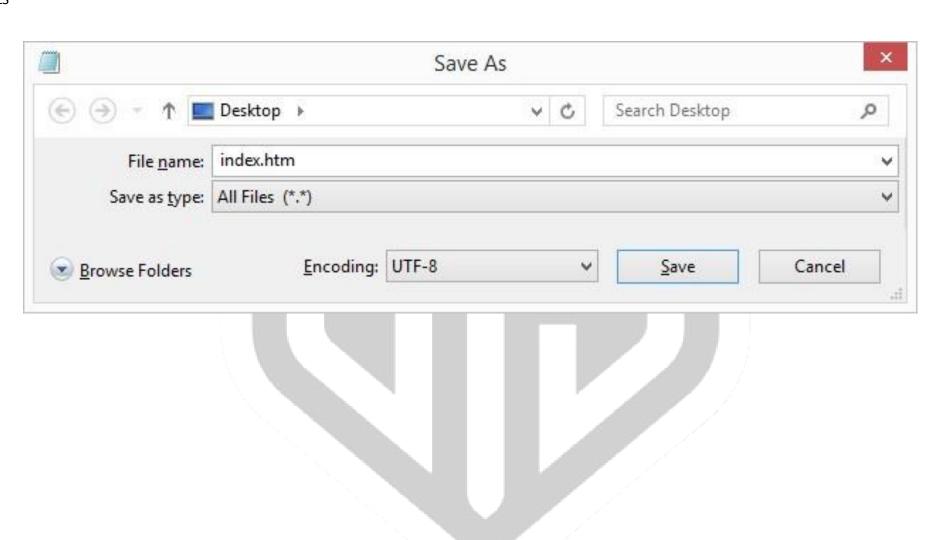
1. Open a text editor (e.g. Notepad)



2. Write HTML content in the file



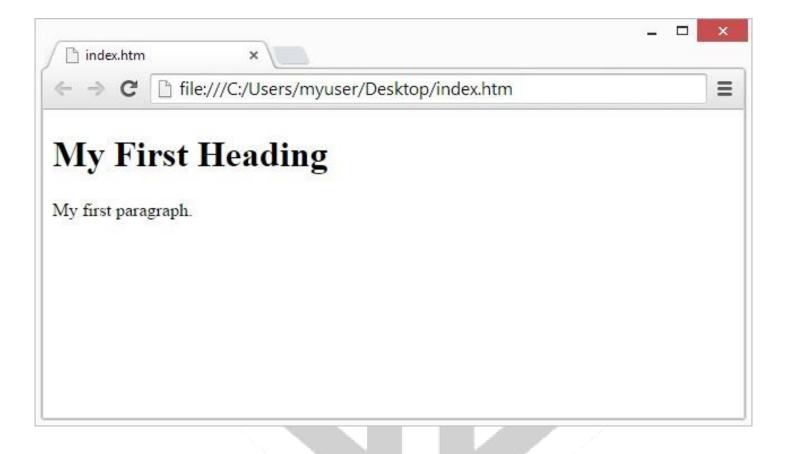
3. Save the file on your system by giving file extension .html or .htm.



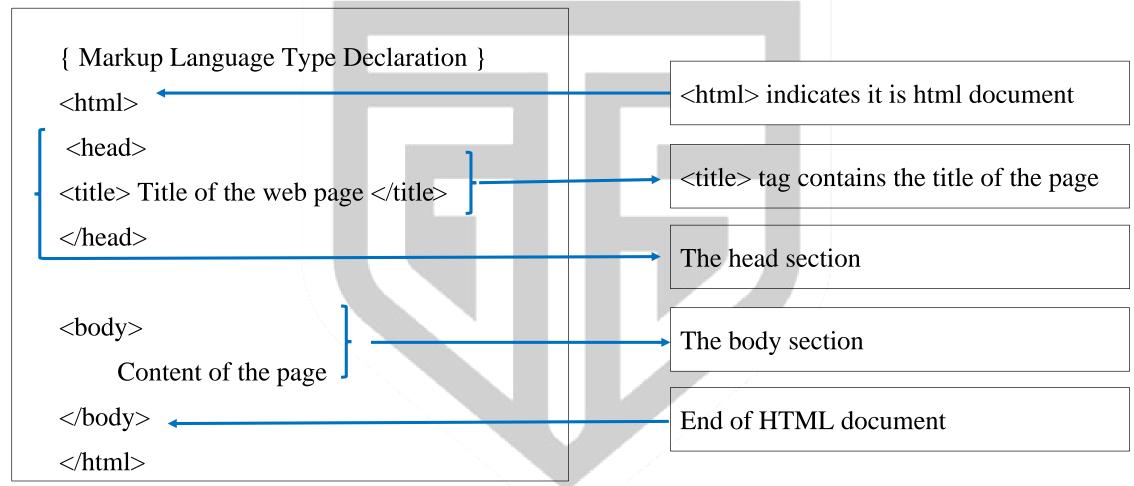
4. Open your Web browser (Internet Explorer, Chrome or Firefox) and enter the path of the HTML file



5. The browser will display the web page.



Basic HTML Document Structure



Structure



```
{ Markup Language Type
                                            <!DOCTYPE HTML>
Declaration }
                                            <html>
<html>
                                            <head>
<head>
                                            <title> The Page Title </title>
<title> { Descriptive Text Here }
                                            </head>
</title>
                                            <body>
</head>
                                            <h1> Page Heading </h1>
<body>
                                            This is my first HTML document 
{ Main content here }
                                            </body>
</body>
                                            </html>
</html>
```

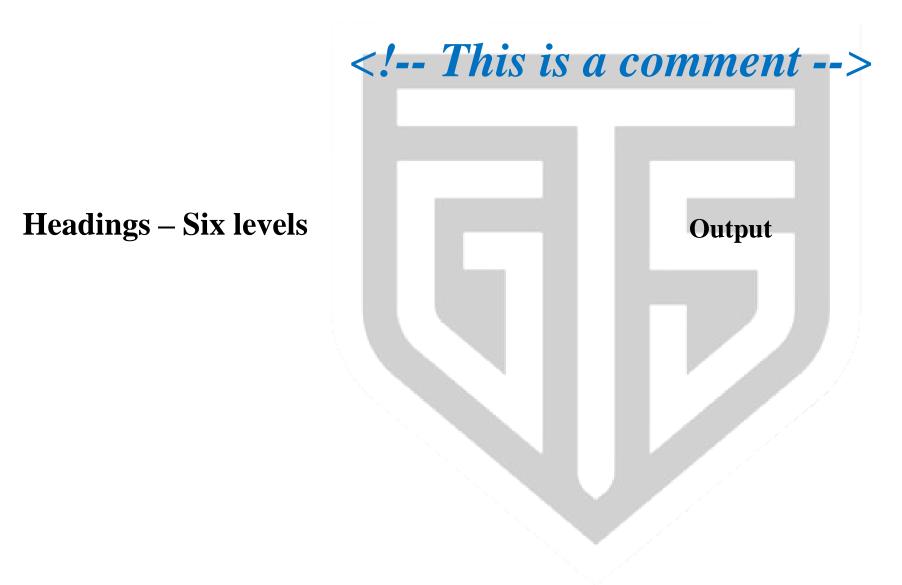
Example

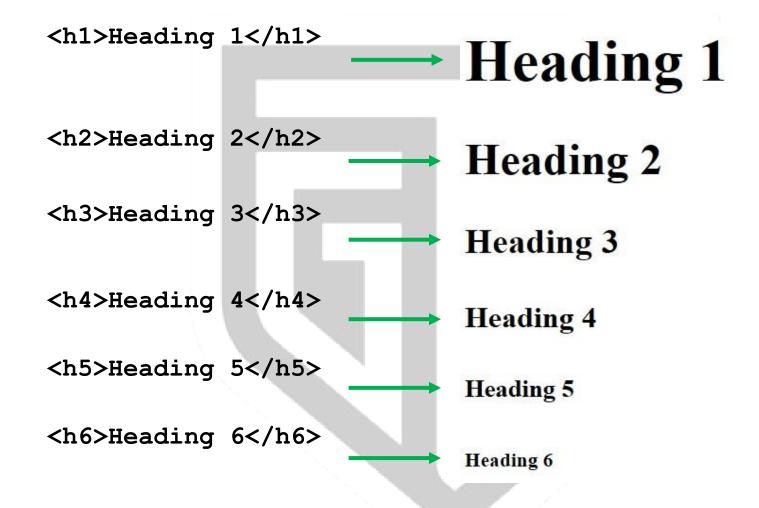
Document type Declarations

Syntax	HTML PUBLIC "html version"
HTML 2 as standardized by the Internet Engineering Task Force	DOCTYPE HTML PUBLIC "-//IETF//DTD HTML//EN"
HTML 3.2	HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN
HTML 4.01	HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
XHTML	<pre><doctype "-="" 1.0<="" dtd="" html="" public="" th="" w3c="" xhtml=""></doctype></pre>
HTML5	html

HTML Comments







Physical Character tags

BoldThis is

ItalicThis is

2010

SmallThis is

 bold This is bold

<i> italics </i> This is italic

SubscriptH₂OH₂O

SuperscriptMar

<small>small</small>

UnderlinedThis is <u> underlined

31st2010Mar 31st

is small

This

</u>This is <u>underlined</u>

BigThis is <big> big </big>This is big

Logical Character tags

1. Citation – displays in italics

This is a short <cite> quote </cite>
This is a short quote.

2. Code – displays in courier font

- 3. Text with a line throughdeleted text deleted text
- 4. Definition displays in italics

<dfn> Internet is a network of networks. </dfn> Internet
is a network of networks.

- **5.** Emphasized text displays in italics This is emphasized text This is *emphasized text*
- 6. Program variable displays in italics

This is a <var> variable </var>

This is a variable

Paragraphs and breaks

Code Snippet

This is a paragraph

And this line follows the paragraph.

This is a paragraph
or> and contains a line break

Output

This is a paragraph

And this line follows the paragraph.

This is a paragraph

And contains a line break

Know More

HTML Basics



This video covers basic of HTML.

Topic	URL
Basic of HTML	https://www.youtube.com/watch?v=hrZqiCUx6kg

When did the first website go online?

The first ever website consisted of only text and links



World Wide Web

The WorldWideWeb (W3) is a wide-area hypermedia information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an executive summary of the project, Mailing lists, Policy

What's out there?

Pointers to the world's online information, subjects, W3 servers, etc.

Help

on the browser you are using

Software Products

A list of W3 project components and their current state. (e.g. Line Mode ,X11 Viola , NeXTStep , Servers , Tools , Mail robot , Library)

Technical

Details of protocols, formats, program internals etc

Bibliography

Paper documentation on W3 and references.

People

A list of some people involved in the project.

History

A summary of the history of the project.

How can I help?

If you would like to support the web...

Getting code

Getting the code by anonymous FTP, etc.

Example external hyperlink

Creating Hyperlinks $<\!\! a\; href = "URL"\!\!> anchor\; text <\!\! /a \!\!>$

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 IGNOU

Example internal hyperlink

Consider the following code,

```
<!- At the top of the page -->
```

<!-- Some more code goes here -->

<!- At the end of the page -->

<a href="#top" back to top

• The first line marks <h1> as the destination.

• The <a> tag displays back to top as a link which when clicked by the user will display the "Introduction section" of the page.

Images make a web page more interesting!









Images

Attributes:

• **src** = "url"

Identifies the file to be loaded into a document.

- align = "top", "middle", "bottom", "left", or "right" Positions the image in the document.
- alt = "message"

Provides the alternate message to be shown if image cannot be displayed.

Example:

• Loads a jpeg* file named "kitten" into the document at the location of the element and center aligned.

• If the file is not available the message, 'Picture of a kitten'is displayed.

Lists Display a list of things

- 1. I am ordered
- 2. Second in the list
 - I am unordered
 - Second in the list

Ordered Lists



Ordered list numbering	Description
type ="1"	This type of list is numbered with numbers.
type ="'I"	This type of list is numbered with uppercase roman numbers.
type ="i"	This type of list is numbered with lowercase roman numbers.
type ="'A"	This type of list is numbered with uppercase letters.
type ="a"	This type of list is numbered with uppercase letters.

General form:

Unordered Lists



Item marker	Description
type ="disc"	Sets the item marker to bullets (default)
type ="circle"	Sets the item marker to a circle.
type ="square"	Sets the item marker to a square.
type ="none"	This is list will not be marked

General form:

Lists Example



• Example A - Ordered ListOutput

```
<h4> Web Technologies I want to learn. </h4>
</br>
<br/>
<br
```

• Example B – Unordered List

```
<h4> Server-side technologies </h4>
<UL>
<LI> PHP </LI>
<LI> AJAX </LI>
<LI> JSP </LI>
</UL>
```

Web Technologies I want to learn.

- 1. HTML
- 2. CSS
- 3. JAVA SCRIPT

Server-side technologies

- PHP
- AJAX
- JSP

Know More

HTML Lists and Images



Explains how links and images are created in HTML.

Topic	URL
How Links and Images created in HTML	https://www.youtube.com/watch?v=3my 2mOOHoNU

Tables All about rows and columns

Tables

	Column 1	Column 2	Column 3
Row 1	cell	cell	cell
Row 2	cell	cell	cell
Row 3	cell	cell	cell

Tables Types

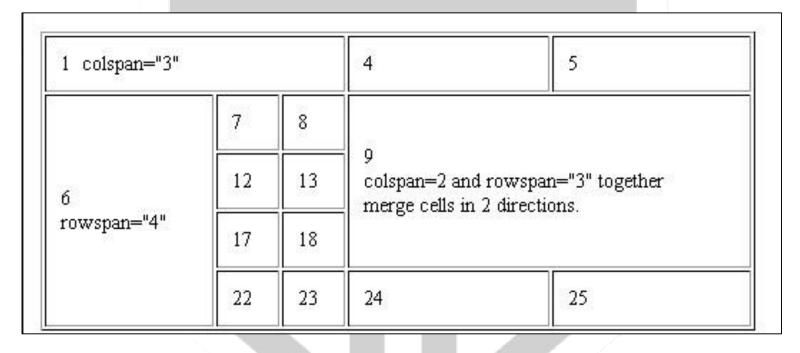




Figure 3: Table within a table

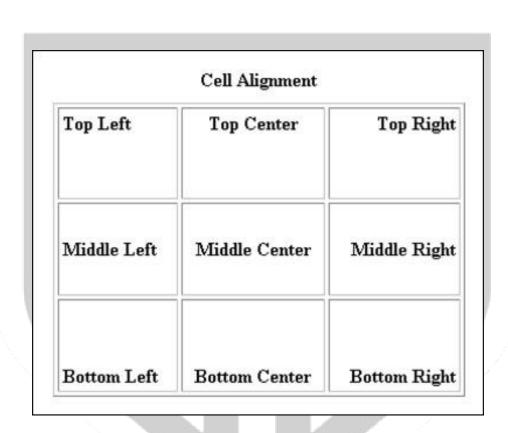
Figure 2: Table with links

Colspan and Rowspan Attributes



$$<$$
th colspan $=$ "x">... $<$ /th>

Cell Alignment



. . .



An Example Code Snippet



GROW TECH SKILLS

```
<table width="500px"
                 >
   border="1px"
                 1 
   bordercolor="green"
                 Ramesh 
   bgcolor="orange">
                  m 
                 9837472723 
                                    Sl.No. 
                  First Name 
                  2 
 Last Name 
                 Suresh 
 Phone no. 
                 9837472724
```

3

```
Rajesh 
 t 
9837472725 
Total Students :
  3
```

Sample Output for code in previous slide

Sl.No.	First Name	Last Name	Phone no.
1	Ramesh	m	9837472723
2	Suresh		9837472724
3	Rajesh	t	9837472725
Total Stude	ents: 3		

Know More

HTML Tables

Explains how to create tables in HTML

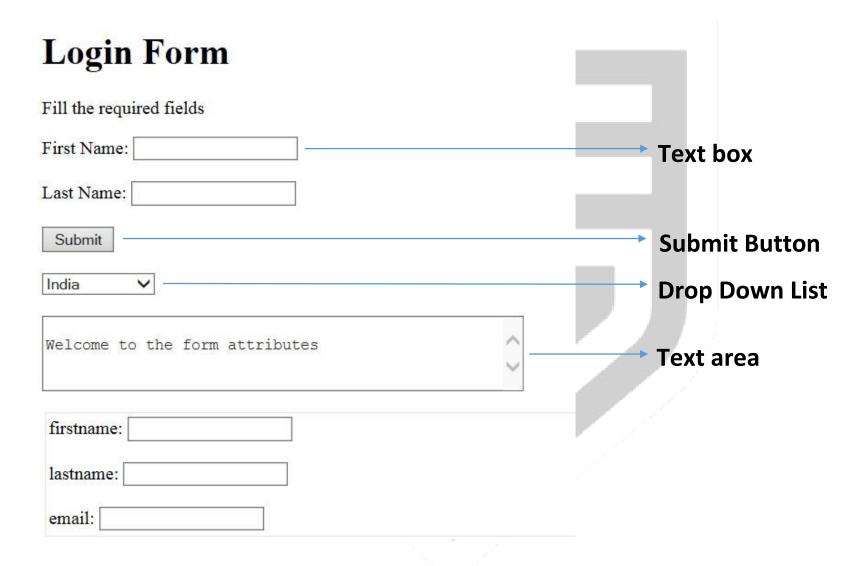
Topic	URL
How to create tables in HTML	https://www.youtube.com/watch?v=BczL WImAmBk

Forms

Getting information from the user

Forms





General Form

```
<form action = "script URL" method = "GET|POST" >
```

form elements

</form>

Input Element

The input element is used to define the different controls in a form.

<input type = "control name">

Text box – for one-line text input field <input type="text" name="firstname"> **Password** – password input field <input type="password" name="firstname"> **Radio** – for radio button <select> <option value="male">Male</option> Male Female <option value="female"> Female </OPTION> </select>

Checkbox – checkbox

Button – clickable button
 <input type="button" onclick="alert('Hello!')" value="Click me"> Click me

 Submit – submit button

 input type="submit" value="Submit"> Submit

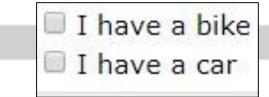
 Reset – reset button

 input type="reset" value="Reset"> Reset

<input type="checkbox" name="vehicle1" value="bike"> I have a bike

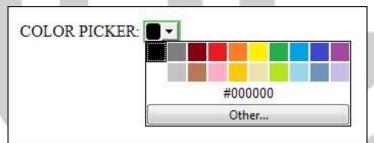
<input type="checkbox" name="vehicle2" value="car"> I have a car

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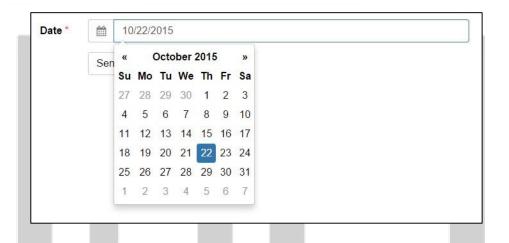
• Color – color picker is shown for selecting a color

<input type="color" name="COLOR PICKER">



• **Date** – date picker is shown for selecting a date

<input type="date" name="Date">



• **Email** – for field which require email as input <input type="email" name="email">

• Text area

<textarea name="message" rows="10" cols="30">

The cat was playing in the garden.

</textarea>

The cat was playing in the garden.

Know More

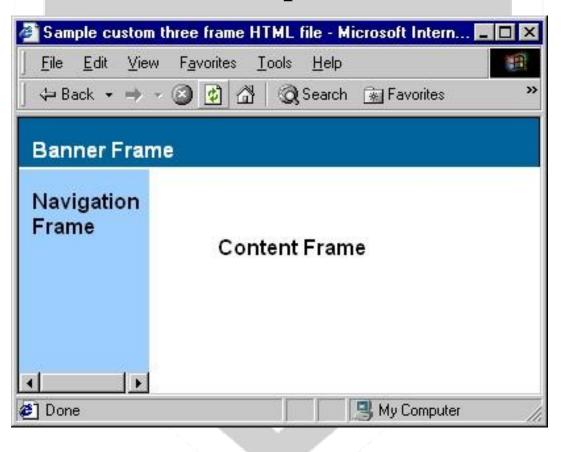
HTML Forms



It talks about how to create forms in HTML

Topic	URL
How to create Forms in HTML	https://www.youtube.com/watch?v=GNu CNQDGBnk

Frames A browser window can have multiple frames



The code snippet for creating a window similar to the one in the previous slide is as follows:

```
<frameset rows = "20%,80%">
 <frame name = "banner" src = "/html/top frame.htm" />
  <frameset cols = "30%,70%">
       <frame name = "Navigation frame" src = "/html/main frame.htm" />
       <frame name = "content frame" src = "/html/bottom frame.htm" />
  </frameset>
  <noframes>
      <body> Your browser does not support frames. </body>
  </noframes>
 </frameset>
```

Frames are not supported by HTML5

Know More

HTML Frames



Explains frames and Frameset tag.

Topic	URL
Frames and Frameset tag	https://www.youtube.com/watch?v=Gi2 mCS5f68A

Issue No 1. Closing tags

```
<html>
 <head>
        <title> My Document </title>
 </head>
 <body>
  <h1> Heading 1 </h1>
       This is paragraph whose closing tag has been forgotten by the author.
  <a href = "home.html" > Go to home page </a>
 </body>
</html>
```



This is paragraph whose closing tag has been forgotten by the author. Go to home page

Issue No 2. Improper nesting of tags

<html>



Heading 1

This is an underlined text with nested elements.

Issue No 3. Custom tags

```
<html>
 <head>
        <title> My Document </title>
 </head>
 <body>
        <h1> My Address </h1>
        <address>
                11, stephens street, Bangalore – 560006
        </address>
 </body>
</html>
```



11, stephens street, Bangalore 560006

Issue No 4. Human Readable, not machine readable

 Mr. RamSumit
br> No. 336, Stephens Road,
br> Frazer Town,
br> Bangalore, 560006

Know More

HTML



Tutorial links for learning HTML.

Topic	URL
Tutorial of HTML	https://html.com/

Self Assessment Questions

3. What will the browser do with the following nested element with mismatched end tags?

<i>this is confusing! </i>

- a) Displays an error
- b) displays the text in bold and italics

4. For Font size acceptable values are:

- a) 1-7 (1 for smallest and 7 for largest)
 - b) Up to 40
 - c) 1-10 (1 for smallest and 10 for largest)
- d) 1-17(1 for smallest and 17 for largest)

Answer: a)

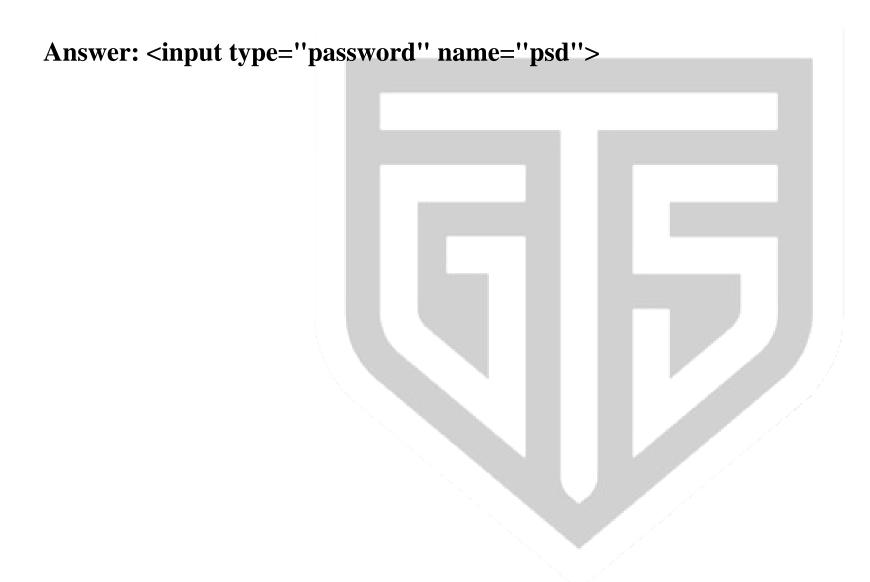
5. What is wrong with the following code:

Answer: Ordered list uses numbering. Disc is a bullet type used for unordered lists.

6. _____ tag is used to create a header cell in a Table.

Answer: <*t*h> </*t*h>

7. Write the input tag for creating a password field.



8. Write HTML code for defining a 3x4 table as shown below,

Header1	Header2	Header3	
Data1	Data2	Data3	Data4
Data5	Data6	Data7	Data8

Answer: table>

- 9. Which of the following attributes of text box control allow to limit the maximum character? a) size
 - b) maxlength
 - c) length
 - d) Ln

Answer: b)

10. To vertically align the cell data in an html table the attribute used is

Answer: Valign.

11. The latest HTML standard is ______.

Answer: HTML 5.1.

- 12. An email link is created using:
 - a) <mail href="mail-id">
 - b)
 - c)
 - d) (B) and (C)

13. HTML stands for ______.

Answer: Hyper Text Markup Language

- 14. HTML was created by:
 - a) Robert Kahn
 - b) Tim Berners Lee

- 15. Tables were introduced in HTML version _____
 - a) HTML 2.0

b) HTML 3.2

Answer: b)

16. _____ was the first HTML editor.

- a) NeXt
- b) Notepad
- c) Nexus
- d) Eclipse

Answer: c)

17. HTML files must be viewed using ______ to see the output.

- a) The command prompt
- b) A browser

Answer: b)

- 18. The basic structure of an HTML document doesn't includes:
 - a) Head
 - b) Paragraph
 - c) Body
 - d) Title

Answer: c)

19. <hr> is used to:.

a`) Includ	16 9	horizo	ntal	line
a,) IIICIU(ie a	HOHZO	mai	IIIIe.

b) Include a line break.

Answer: b)

20. DOCTYPE specifies the HTML version being used.

- a) Yes
- b) NO

Answer: b)

21. HTML offers _____ levels of headings.

Answer: 6 levels.

22. The text placed between is displayed as:

- a) Strong text
- b) Superscript
- c) Subscript
- d) Super imposed text

- 23. Logical tags are used:
 - a) To format the characters.

b) To indicate how the text is being used.

Answer: b)

24. The tag used to display text with a line through is:

- a) <u></u>
- b)

- 25. is used to:
 - a) Emphasise the text.
 - b) Indicate an empty variable

Answer: a)

- 26. The first ever website went online in _____
 - a) 1991
 - b) 1993

Answer: a)

- 27. The first website included text, links and tables.
 - a) Yes
 - b) No

28. A hyperlink:

- a) Links documents.
- b) Links tables with graphs.

Answer: a)

- 29. An internal hyperlink connects two sections in the same document.
 - a) Yes
 - b) No

Answer: a)

30. The tag for including an image is:

- a)
- b)

Answer: b)

31. Write the syntax for including alternate text for image in an HTML document.

Answer: .

32. Name the two types of lists.

Answer: Ordered lists and unordered lists.

33. is used to create _____ list.

Answer: Ordered list.

- 34. Write the code to create a list as shown:
 - Cloud computing
 - Big Data Analytics
 - Machine Learning
 - Internet of Things
 - Information Security

```
Answer: ul type =square>
        Cloud computing 
        Big Data Analytics
        Machine Learning 
        Internet of Things 
        Information Security 
       35. A table can contain:
          Data only
       a)
          Data and images
          Data and multimedia
       c)
          Data, multimedia and other tables
```

Answer:	d)

- 36. > is used for:
 - a) Adding header to the table
 - b) Adding table data

Answer: a)

37. The possible values for the method attribute of the form tag are _____ and

Answer: GET and POST.

38. The controls in a form are defined using:

a) Control element

b) Input element

Answer: b)

39. Write the difference between a text field and a password field.

Answer: When you type the characters in a password field are displayed as asterisk.

- 40. On clicking the submit button:
 - a) The form handler specified as the action attribute is executed.
 - b) Does nothing. Answer: a)
- 41. Write HTML code to create 3 checkboxes, displaying the options:

- a) Red
- b) Green
- c) Yellow

Answer: <form>

```
<input type="checkbox" name="red" value="red"> Red <br>
<input type="checkbox" name="green" value="green"> Green <br>
<input type="checkbox" name="yellow" value="yellow"> Yellow</form>
```

- 42. The visible width of a text area is specified using:
 - a) Rows attribute
 - b) Cols attribute

Answer: a)

43. A frame:

a) Divides a window into multiple sections.

b) Defines the border of an image.

Answer: a)

44. A collection of frames in a page is called _____

Answer: Frameset.

45. HTML5 supports frames.

- a) Yes
- b) No

16	Select the sentences	that are correct
40.	Select the semences	s mai are correct.

- a) HTML is strict about closing tags.
- b) Improper nesting of tags creates an error.
- c) HTML is not extensible, hence custom tags are not allowed.
- d) HTML tags are not machine readable.

Answer: c), d).

47. The Doctype declaration for HTML 5 is _____

Answer: <DOCTYPE HTML>

- 48. Which is the valid one?
 - a) <!-- This is a comment -->

b) <! This is a comment -->

Answer: a)

49. Write html code to display the text "All the Best!" in bold and underlined.

Answer: <u> All the Best! </u>

- 50. <cite> displays the text in:
 - a) Bold
 - b) Italics

51.	The logical char	acter tag to dis	play a definition is	S
	\mathcal{L}	\mathcal{L}	1 2	

- a) <dfn>
- b) <definition>

Answer: a)

52. Can rowspan and colspan attributes be used with tag. (Yes/No) Answer:

Yes.

53. The text between <noframes> </noframes> is displayed when the browser does not support frames.

(Yes/No)

Answer: Yes.

Assignment

Assignment

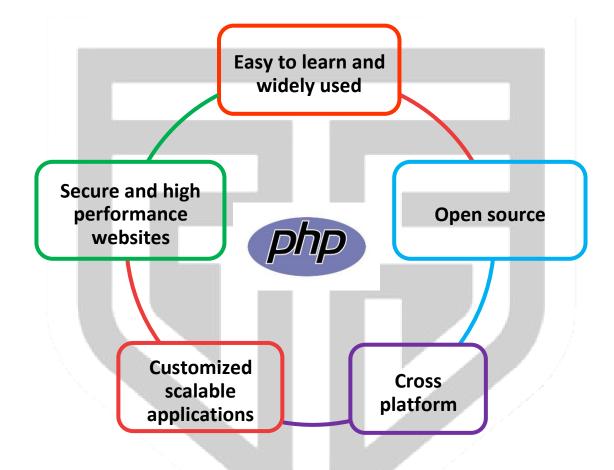
- 1. Create a sample web page using HTML elements, include: a link, an image and a table.
- 2. Create an HTML document demonstrating the use of frames.
- 3. Using HTML form element create a student registration form with submit and reset buttons.

4. Prepare a document on Document Type Declarations in XHTML.

Part II - PHP and MySQL

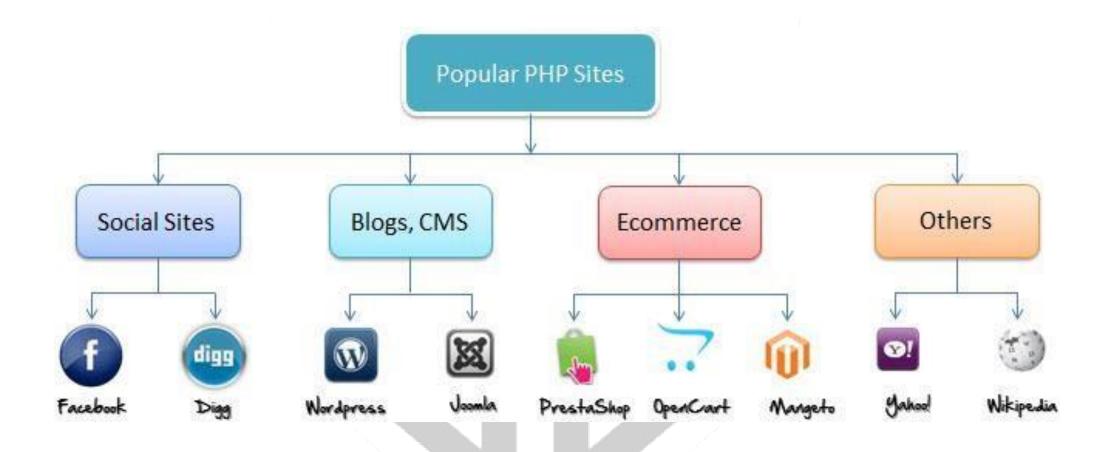
Why use PHP?

PHP is the most popular language for web development.



Popular PHP Sites

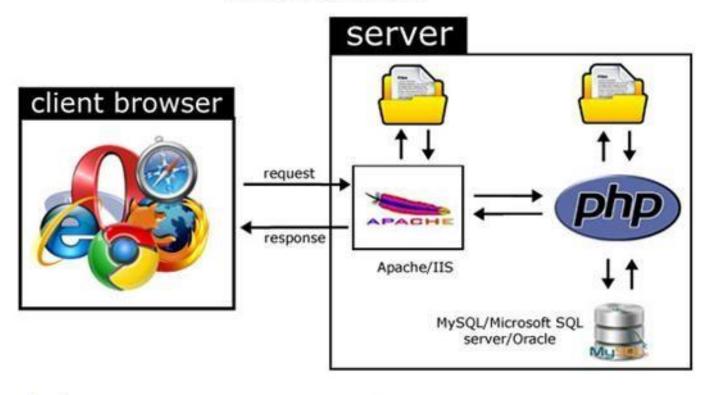
PHP is the most popular language for web development.



How PHP Works



Basic Structure





Hypertext PreProcessor (PHP) - Basics

PHP Syntax

A PHP file has .php extension.

- Statements and expressions must end with a semicolon. print("Hello World");
- Curly braces are used for making blocks.

Count and count are different.

//Block of code; }

• It is whitespace insensitive. (backspace, tab, newline, carriage return) — all the given expressions are valid.

1. Sum=a+b; //no spaces

2. Sum = a + b; //spaces included

3. Sum = a //newline + b; included

PHP Comments

Single Line Comments (# and //):

1. # This is a single line comment in PHP.

2. // This too is a single line comment in PHP.

Multi-Lines Comments (/*.. */):

/* This is a multi line Comment in PHP. Uses the C style.*/

Variables

Syntax:

\$variablename = value;

Examples:

\$num = 23;
\$name = "Jay";
\$Name = "Mehta";

```
value = 3.4;
```

Rules:

- Starts with a \$ sign followed by the variable name.
- Variable name itself must begin with a letter or underscore.
- Can contain only letters (A-Z,a-z), number(0-9) and underscore(_).
- Case sensitive.
- A string must be enclosed within double quotes.

Echo and Print Statements

There are two ways to display the output

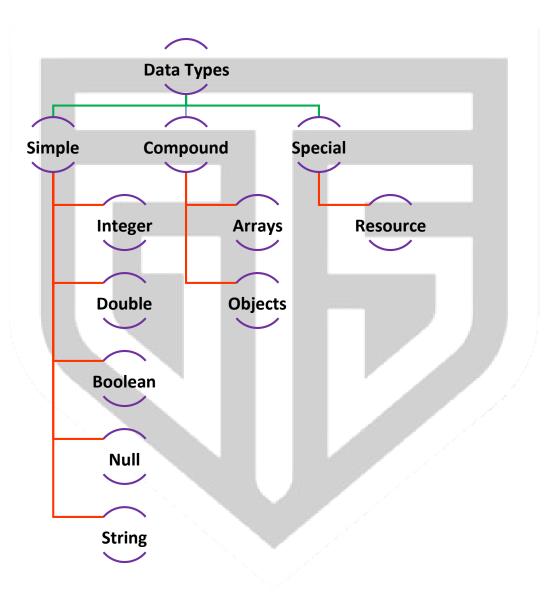
- echo() echo "Hello World!"; echo

\$var;

print("Hello print() World!"); print "Hello World"; print \$var;

Data Types in PHP





Simple Data Types Examples

```
$n = 345;
$d = 3.14159;
$flag = true;

$str = "I like PHP";
$empty = "";

//Empty string
$no_value = NULL;
```

Constants

Constants are values which cannot be changed.

Syntax:

The define() function is used to define a constant.

define ("constant name", value, case-insensitive)

Example:

define ("PI", 3.14); //creates a constant PI which is case-sensitive define ("PI", 3.14, true); //creates case-insensitive constant PI

Rules:

- A constant name must start with a letter or an underscore.
- it can have alphabets (A-z,a-z), numbers (0-9) and underscore(_).
- Once defined it cannot be changed.
- The define() function is used to define a constant.

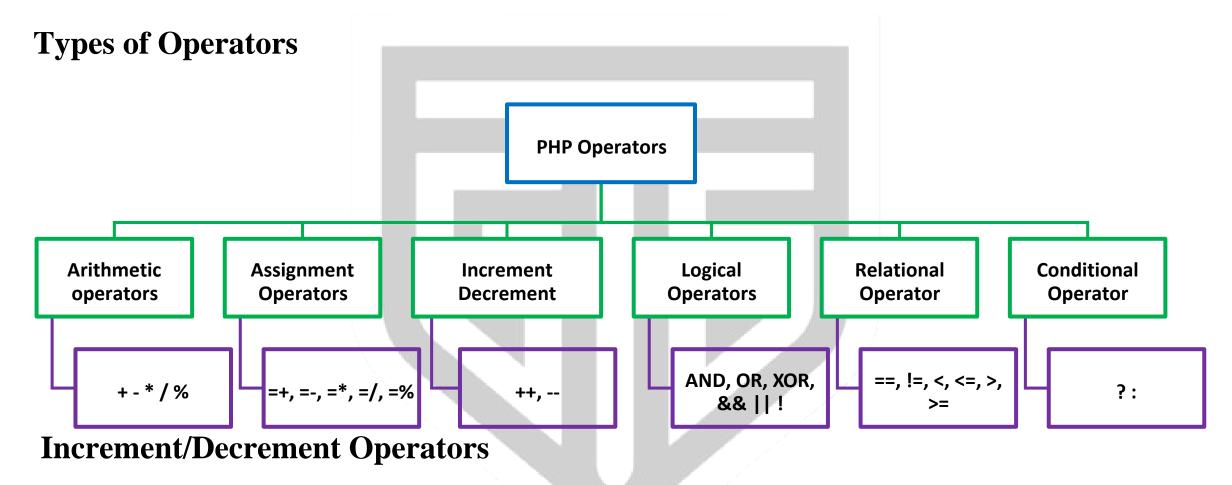
- The constant name is used to access its value.
- The constant() function is used to access the constant dynamically.

Predefined Constants

There are five predefined constants in PHP which change depending on where they are used.

Constant Name	Description
LINE	The current line number
FUNCTION	The function name

FILE	The full path and name of the file
CLASS	Name of the class
METHOD	Class method name



Used to increment (++) or decrement (--) the value of a variable by 1.

The operators can be used before (pre) or after (post)the variable.

Example:

```
$a = 9;
echo "Pre increment: ++$a";
echo "Post increment:$a++";
echo "Final value of a: $a";
```

In the first echo statement a is incremented first and then the value is displayed. In the second echo statement the value of a is displayed and then incremented.

Output:

Pre increment: 10

Post increment: 10

Final Value of a: 11

Logical Operators

Used to combine conditional statements.

- 1. and (\$x and \$y) true if both \$x and \$y are true.
- 2. or (x or y) true if either x or y is true.
- 3. Xor (\$x xor \$y) true if either \$x or \$y is true but not both.
- **4. && and (\$x && \$y)** true if both \$x and \$y are true.
- 5. $\| \operatorname{or}(\$x \| \$y) \text{ true if either } \$x \text{ or } \$y \text{ is true.}$
- 6. ! Not(!\$x) true if \$x is false

Conditional Operator (?:)

Syntax:

If Condition is true? Then value x: Otherwise value y

Example:

(a > b): echo "a is bigger"; echo "b is bigger";

Concatenation Operator (.) Used to concatenate strings

Syntax:

String1.String2

Example:

"Hello"."World!"

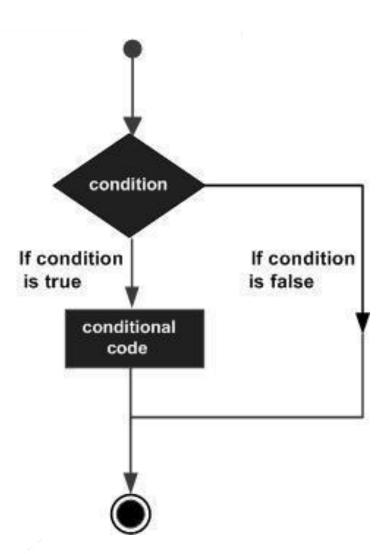
Output : HelloWorld!

Decision Making Statements

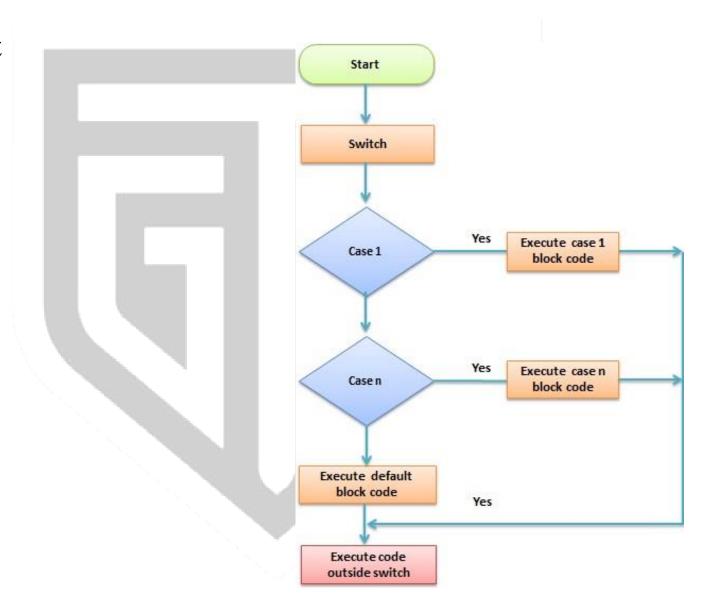
If .. Else Statement

Syntax:

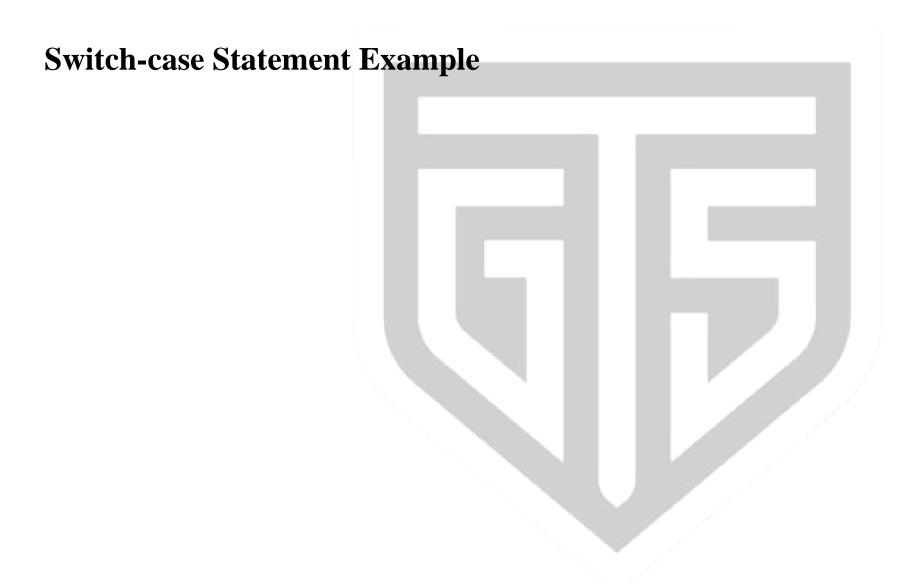
```
if (condition) {
//Statement block if condition is true
} else{
//Statement block if condition is false
}
```



Switch-case Statement



```
switch (expression) { case 1:
//Statements if expression = case 1; break;
.
. case N:
//Statements if expression = case n; break;
default:
//Statements for if none of the value match
}
```



```
switch (day)
                                 case 4: echo
                                                                default: echo
                                                                "Invalid day";
                                 "Thursday";
                                                                break;
                                 break;
case 1: echo
                                 case 5: echo
"Monday";
                                 "Friday";
break;
                                 break;
case 2: echo
"Tuesday";
                                 case 6: echo
                                 "Saturday";
break;
                                 break;
case 3: echo
                                 case 7: echo
"Wednesday";
                                 "Sunday";
break;
                                 break;
```

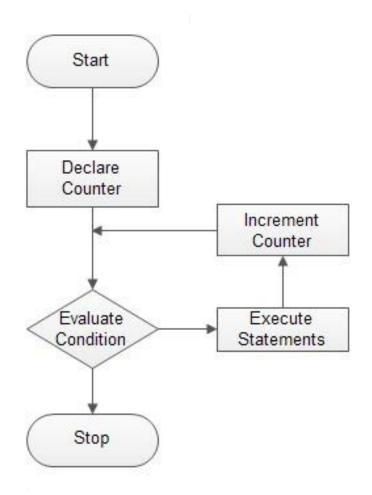
Looping Constructs

For Statement

Syntax:

for (initialization; condition; increment)
{ code to be executed;
}

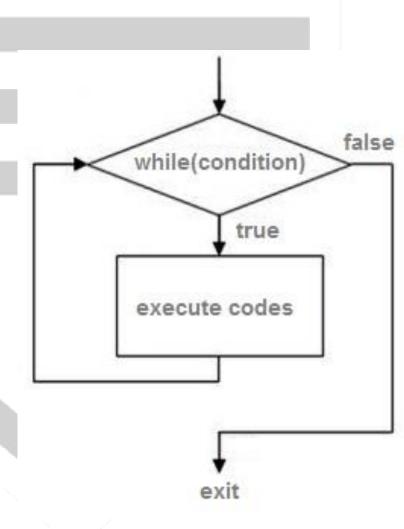
Example:



While Statement Syntax:

```
while (condition)
{
//Statements if condition is true
}
```

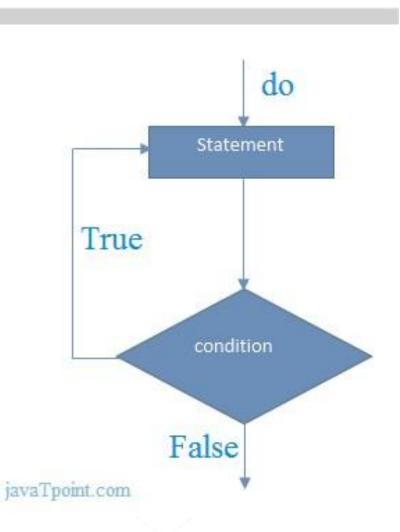
```
<?php
while($i < 10) { echo $i;
}
?>
```



Do-while Statement Syntax:

```
do {
    //statements
} while (condition);
```

```
<?php do
{ echo $i; } while( $i <
10 );
?>
```



Foreach Statement

Foreach loop is used to loop through an array until it reaches the end of array.

```
Syntax: foreach (array as
    value)
{
    //Statements;
}
```

Here, for each pass of the loop the current value of array is assigned to value and the array index is incremented by one.

```
<?php
foreach($scores as $value)
{ echo "score : $value";</pre>
```

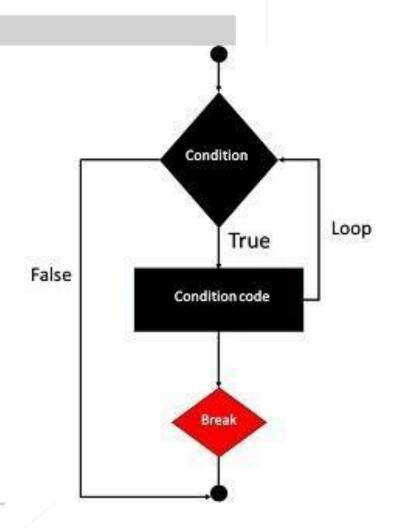
}?>



Break Statement

To terminate a loop before completion.

Syntax: break; Example:

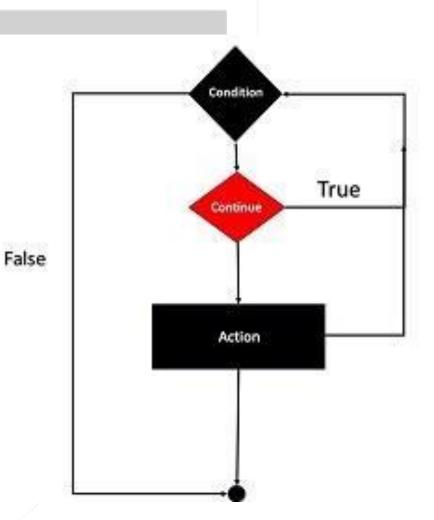


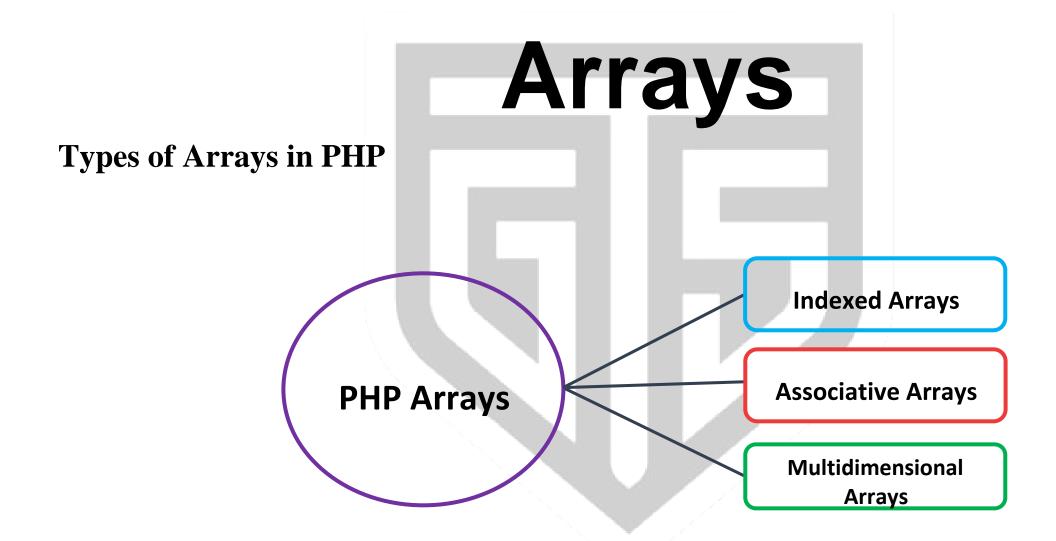
Continue Statement

To skip an iteration of a loop.

Syntax: continue; Example:

```
Prints odd numbers between 1 and 10.
<!php $i = 1; while($i < 10){ if($i%2 == 0){ continue; } else{ echo $i; } }
```





Indexed Arrays

An array with numeric index.

Syntax:

```
$arrayname = array(value 1, value 2, . . . , value n); value can be numbers, strings or objects.
```

```
$num = array (1, 2, 3, 4, 5);
Here the array is accessed as,
$num[0] = 1;
$num[1] = 2;
$num[2] = 3;
$num[3] = 4;
$num[4] = 5;
```

Associative Arrays

Arrays with index as string.

For instance,

Marks of students - instead of having a numeric index, the student ID can be made an index.

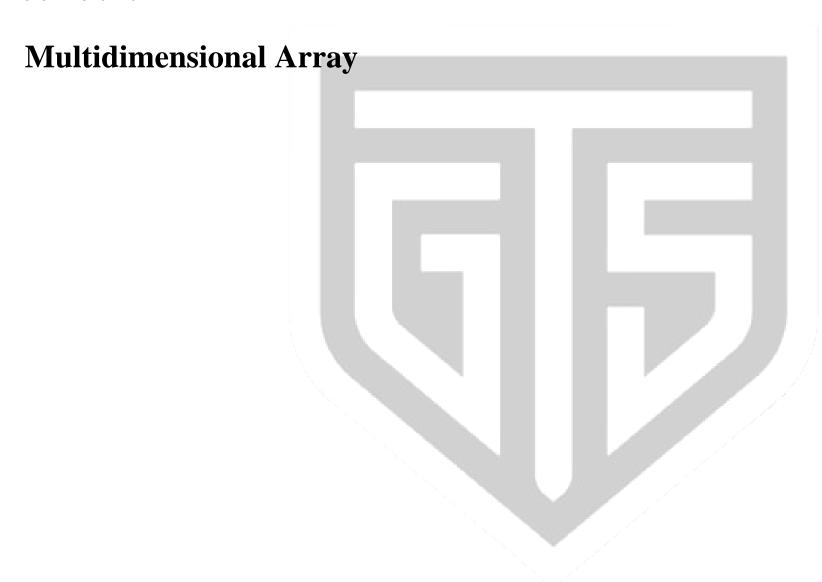
Syntax:

\$arrayname = array("index 1" => value 1, .. index n" => value n);

Example:

\$marks = array ("st18001" => 48, "st18002" => 42, "st18003" => 45);

To access the marks of student with ID st18003, echo "marks st18003:" . \$marks['st18003'];



Array within an array

```
/* Declaring a multidimensional array */
<?php
     marks = array(
       "mohammad" => array
        ("physics" => 35,
        "maths" => 30.
        "chemistry" => 39
       "qadir" => array (
        "physics" => 30,
        "maths" => 32,
        "chemistry" => 29
```

```
"zara" => array (
        "physics" => 31,
        "maths" => 22,
        "chemistry" => 39
       ) );
/* Accessing multi-dimensional array values */
echo "Marks for mohammad in physics:";
echo $marks['mohammad']['physics'] . "<br/>";
 echo "Marks for qadir in maths: "; echo
 $marks['qadir']['maths'] . "<br/>";
echo "Marks for zara in chemistry:";
echo $marks['zara']['chemistry'] . "<br/>";
?>
```

Strings

Strings

A String is a sequence of characters such as, "Hello World" or 'Hello World'

String Functions:

- 1. strlen() Returns the length of a string.
 strlen("Hello World!"); // returns 12
- **2. strpos**() to search a string or character in a string. Returns the position of the first match, false if no match found.

```
strpos("Hello world!","world"); //returns 6
strpos("Hello world!","l");//returns 2
strpos("Hello world!","hi"); //returns false
```

- **3. strrev**() reverses a given string. strrev("Hello World!"); // returns !dlroW ollleH
- **4. strreplace**() replace some characters with other characters. strreplace("World", "Sunshine", "Hello world!"); //replaces World with Sunshine Hello Sunshine
- 5. str_word_count() counts the number of words in a given string. str word count("I like PHP!"); // returns 3
- **6. String Concatenation** The dot (.) operator is used to combine two strings into one.

\$str = "Hello World!"." like PHP";

//\$str will contain "Hello World!I like PHP"

Escape Sequences:

Some characters cannot be used in a string they must be escaped. PHP offers the following escape sequences.

- \n is replaced by the newline character
- \r is replaced by the carriage-return character
- \t is replaced by the tab character
- \\$ is replaced by the dollar sign itself (\$)
- \" is replaced by a single double-quote (")
- \\ is replaced by a single backslash (\)

Know More



A tutorial link for PHP. Covers the basics of PHP.



A tutorial video link for PHP. It covers the installation of PHP and PHP basics in a series of short videos .

Topic	URL
Tutorial Link of PHP	https://www.w3schools.com/html/html5_n ew_elements.asp
New elements of HTML	https://www.youtube.com/watch?v=mdDlsq elEh0

PHP Form Handling

PHP Environment

The PHP environment on your computer will allow you to edit and test your web pages before they are uploaded on the server. To setup PHP environment,

- 1. Install a web server like Apache
- 2. Install PHP
- 3. Install a good code editor such as Eclipse

OR

You can also install **WAMP Server** which is a **software stack for Windows** consisting of all the above listed elements and MySQL.

All the listed software are open source.

PHP Environment Variables

ENV variables help to create and shape the environment where the code is running.

- The PHP environment variables are listed in the phpinfo.php file.
- HTTP_USER_AGENT identifies the user's browser and operating system.
- HTTP_ACCEPT_LANGUAGE identifies the language accepted such a en-US(English United States).
- **SERVER_NAME** contains the name of the server.

• The **getenv()** function can be used to access the value of all environment variables.

GET and POST Methods

GET Method

• The parameters are listed in URL at the end as name-value pairs.

Example: http://www.foo.com/?name=Kelly&age=18 •

Used to get something without writing any data to the server.

- Used to send small amount of data.
- Sensitive data like passwords cannot be sent.

• PHP provides \$_GET associative array to access the data.

POST Method

- The data is embedded in the request message (HTTP header).
- Used to write something to the server.
- Used when large amount of data needs to be sent (eg. Files).
- Sensitive data such as passwords can be sent using POST (by using HTTP secure).
- PHP provides \$_GET associative array to access the data.

Form Handling

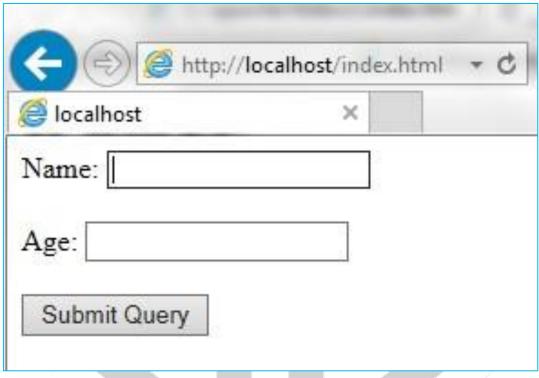
\$_GET and **\$_POST** are used to collect the form data.

```
Consider this simple HTML form which uses POST – index.html
<html>
    <body>
    <form action="sample.php" method="post"> Name:
     <input type="text" name="name"> <br><br>
     Age: <input type="text" name="age"> <br><br>>
     <input type="submit">
    </form>
    </body>
</html>
```

Save the file under apache\htdocs.

Form Handling – Output

Open index.html from the apache server to see the following output.



Create the php file - sample.php

html> <body>

Welcome

<?php echo \$_POST["name"]; ?> you
are

<?php echo \$_POST["age"]; ?> years
old.

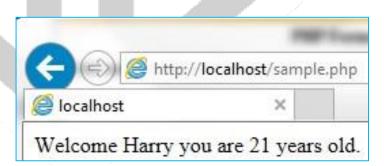
</body>

Save the file under apache\htdocs.

PHP Forms - Sample Output

Enter name as Harry and age as 21.

On pressing the Submit Query button, we get the following output:



http://localhost/inde

×

localhost

Age: 21

Name: Harry

Submit Query

Know More



The links explains how form data is handled in PHP using examples.



The video explains how form data is handled in PHP using examples.

Topic	URL
PHP handling in form of data	https://www.w3schools.com/php/php_ex amples.asp
PHP Handling and data types	https://www.youtube.com/watch?v=n2o WBRTeDyg

Files

File Inclusion

Contents of files such as PHP, HTML, text or other files can be included in a PHP file using,

• include statement • require statement

Syntax:

```
include 'filename';
or
require 'filename';
```

On failure,

- Include gives a warning E_WARNING.
- Require gives a fatal error E_COMPILE_ERROR.

Files in PHP

Opening a File: fopen() - returns false if it fails to open a file, otherwise it returns a file pointer.

Syntax:

```
fopen("filename", "mode");
```

Mode can be, r - read

only r+ - read and

write w – write only

w+ - read and write

a – append a+ - readand append

Closing a file

fclose()

Used to close a file. Returns true if it succeeds, false otherwise.

Reading from a File

To read a file,

1. Open the file in read mode using, fopen("file1.txt","r"); 2. Get the file's length using filesize(), filesize("file1.txt");

- 3. Read the file using, fread();
- 4. Close the file using, fclose();

Writing to a File

The fwrite() function is used to write into a file.

1. Open the file in write mode.

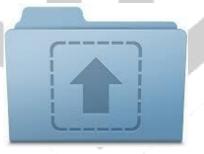
2. Write the data.

fwrite(\$fp,"This is my first file.");

3. Close the file. fclose();

Uploading a File

- 1. Using PHP we can upload files to the server.
- 2. The files are initially uploaded into a temporary directory on the server and then uploaded to the destination by a PHP Script.
- 3. the php.ini file contains the information,
 - upload_tmp_dir contains the temporary directory name used for uploads
 - upload_max_filesize contains the maximum permitted size for uploading.



1. Configure the **php.ini** file to allow file uploads.

In **php.in** file, find the **file_uploads** directive and **set it to on.** file_uploads = on

2. Create an HTML form that allows users to browse the file they want to upload.

<input type="file" name="fileToUpload" id="fileToUpload">

- type = file will create a browse button.
- For method must be post.
- Include the attribute enctype="multipart/form-data"
- 3. Create the php script to upload the file.

File Upload - HTML Form

```
<html>
 <body>
   <form action="upload.php" method="post" enctype="multipart/form-data">
   Select image to upload:
   <input type="file" name="fileToUpload" id="fileToUpload">
   <input type="submit" value="Upload Image" name="submit">
   </form>
 </body>
</html>
```

Uploading a File – PHP Script

The PHP global variable **\$_FILES** is an **associative array** which is created by PHP **for storing all the information about the file to be uploaded.**

So, if the input name attribute of form in HTML is given as "file", PHP creates the following variables:

- 1. **\$_FILE['file']['tmp_name']** uploaded file in temporary directory on the server.
- 2. **\$_FILE['file']['name'] -** actual name of the uploaded file.
- 3. **\$_FILE['file']['size']** size in bytes.
- **4. \$_FILE['file']['type']** MIME type of the file.
- 5. **\$_FILE['file']['error']** error code associated with the file upload.

File Upload - PHP Script

Checking if the file exists before uploading:

```
// Check if file already exists if
(file_exists($file_tmp)) { echo
"Sorry, file already exists.";
}
```

Uploading the File:

The **move_uploaded_file()** function is used to move the file to its target destination from the temporary directory.

move_uploaded_file(\$file_tmp,"images/".\$file_name);

Here the file is moved to /images directory.

Checking the file size:

```
// Check file size
if ($_FILES["file_tmp"]["size"] > 2097152 )
{ echo "Sorry, your file is too large.";
}
```

Checking the File Type:

```
// Allow certain file formats if($imageFileType != "jpg" && $imageFileType != "png" && $imageFileType != "jpeg" && $imageFileType != "gif" ) { echo "Sorry, only JPG, JPEG, PNG & GIF files are allowed."; $uploadOk = 0; }
```

Know More



Explains how file handling is done in PHP.



Explains how file handling is done in PHP.

Topic	URL
File Handling in PHP	https://www.w3schools.com/php/php_file.asp
File Handling in PHP	https://www.youtube.com/watch?v=e7Nv wnWaOZw

Self Assessment Questions

Self Assessment Questions

- 1. What does PHP stand for:
 - a) Personal Home Page
 - b) Hypertext Preprocessor
 - c) Pretext Hypertext Processor
 - d) Preprocessor Home Page

Answer: b)

2. Write the PHP syntax.

Answer: <?php php code ?>

- 3. Which of the given option(s) is/are used to write a single line comment in PHP?
 - a) /* */
 - b) //
 - c) #
 - d) \$

Answer: b), c).

4. Choose the correct string declaration in PHP from the given options:

- a) \$str = "Hello World!";
- b) String str = "Hello World!";
- c) String \$str = "Hello World!";
- d) String str[] = "Hello World!";

Answer: a)

5. What will be the output of the code?

<?php

\$n=10; \$s=20; echo

\$n . "+" . \$s; ?>

- a) 30
- b) error
- c) 10+20
- d) 10.+.20

Answer: c)

6. Choose the valid variable name(s) from the given options.

- a) \$var
- b) \$9jk
- c) \$_set
- d) \$jk9

Answer: a), d).

7. What will be the output of the given code,

<?php

\$a=4; echo

"\\$a"; ?>

a) 4

- b) \$a
- c) \4
- d) error

Answer: b)

8. List the different types of arrays in PHP.

Answer: Indexed array, Associative array, multidimensional array.

9. Associative arrays use a string as an index.

- a) Yes
- b) No

Answer: a)

10. Choose the correct statement for creating an array.

- a) numbers[] = array(1, 2, 3, 4, 5);
- b) Numbers[] = $\{1, 2, 3, 4, 5\}$;
- c) Number[0] = array(1, 2, 3, 4, 5);
- d) \$numbers = array(1, 2, 3, 4, 5);

Answer: d)

11. Consider the code,

Write the echo statement to print the salary of 'Ram'.

Answer: echo "Salary of Ram is:". \$sal['Ram'];

12. What will be the output of:

strpos("I like Web Development!", "i");

A	
Answer:	Λ
Allowel.	v

13. The _____ function is used to reverse a string.

Answer: strrev()

14. Write the statement to count the words in the string "The fox jumped over the lazy dog."

Answer: str_word_count("The fox jumped over the lazy dog.");

15. _____ function is used to access all environment variables.

- a) getenv()
- c) \$_ENVIRON
- d) getinfo()

Answer: a)

16. \$_GET and \$_POST are used to collect form data. (True/False) Answer: True.

17. GET is used when we have to write something to the server. (True/False)

Answer: False.

18. Consider the URL,http://www.test.com/

How will the URL change if we send the name-value pairs,

'user=ram' and 'status=active'

using GET.

Answer: http://www.test.com/?user =ram&status=active

19. We can send credit card number using GET. (True/False) Answer: False.

20. _____ and _____ statements are used to include the contents of a file in a PHP file.

Answer: include and require.

21. E_COMILE_ERROR is a fatal error produced by:

- a) include statement
- b) require statement
- c) error statement
- d) on compilation

Answer: b)

22. If the file 'test' is opened as, fopen("test","a");

- a) The file is opened in read mode, file pointer points to the beginning.
- b) The file is opened in write mode, file pointer points to the beginning.
- c) The file is opened in write mode, file pointer points to the end of file.
- d) The file is opened in read/write mode, file pointer points to the end of file.

Answer: c)

23. The filesize() method returns the size of file in:

- a) bits
- b) kilobytes
- c) word count
- d) bytes

Answer: d)

24. Write the syntax of the input statement used when uploading a file to the server.

Answer: <input type = "file" name="filename" id="fileid" enctype="multipart/form-data">

25. All the information about the file to be uploaded is stored in the global variable

_____.

Answer: \$_FILES

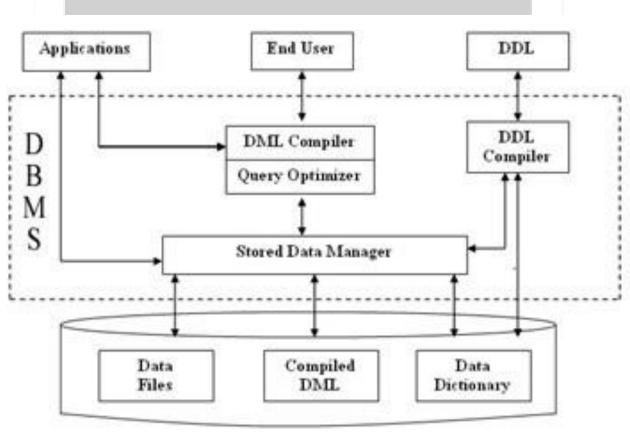
Database-Use Case

Consider a scenario, where xyz bank doing thousands of transactions a day. Through these transitions data is generated per day and ranges from MBs to GBs. Now how to store and manipulate for easy and fast access?

What is RDBMS?

- 1. RDBMS stands for Relational Database Management System
- 2. It is a kind of software to mange and manipulate data
- 3. RDBMS examples
 - MySQL
 - Oracle
 - MS SQL Server

RDBMS Architecture



How to Manage Data?

- 1. All RDBMS software use internal language to manage data.
- 2. The language is SQL.
- 3. SQL stands for Structured Query Language.
- 4. Syntax of SQL commands in each RDBMS software varies.
- 5. Example create select statement is not same in Oracle and MySQL

SQL Types

1. DDL

• Data Definition Language. SQL commands are create, drop and modify.

2. DML

 Data Manipulation Language. SQL commands are insert, update and delete.

3. DQL

• Data Query Language. SQL commands are select.

PHP Database Handling

- 1. PHP works with all databases like Oracle, MySQL and MS SQL Server.
- 2. PHP has different API to connect database.
- 3. API Types.
 - mysql_functions.
 - These functions are deprecated from PHP 5.x.
 - mysqli_functions.
 - PDO objects.
- 4. In coming slides, we will discuss mysqli_functions.

Mysqli_functions

- 1. mysqli_connect().
 - Is used to connect to specific database.
- 2. mysqli_close().
 - Is used to close the connection from database.
- 3. mysqli_query().
 - Is used to executed SQL quireis like (insert, delete, update and select).
- 4. mysqli_num_rows(mysqli_result \$result).
 - Is used to check number of rows.
- 5. mysqli_fetch_assoc(mysqli_result \$result).

Mysqli_connect() Example

- 1. This function takes three or four parameters to connect & returns resource link.
 - resource mysqli_connect (server, username, password).
 - resource mysqli_connect (server, username, password, database).
- 2. Code snippet as follows to connect MySQL database.

```
<?php
$host = 'localhost:3306'; //database server instance
$user = 'shiva'; //database user name
$pass = 'kumar'; //database password
$conn = mysqli_connect($host, $user, $pass);</pre>
```

?>

Mysqli_close() example

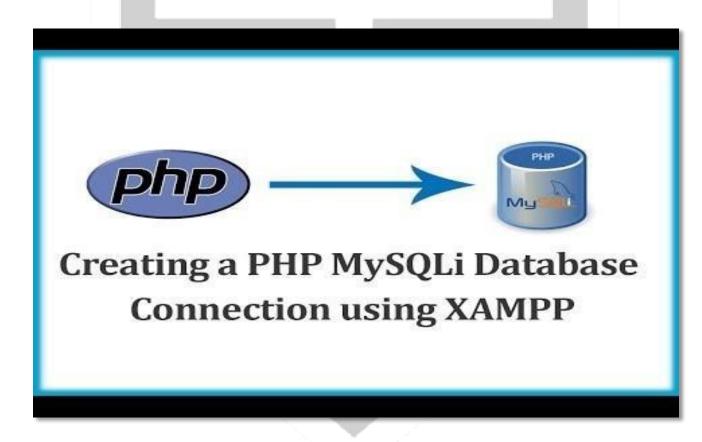
- This function closes the connection
- bool mysqli_close(resource \$resource_link)

```
<?php
$host = 'localhost:3306'; //database server instance
$user = 'shiva'; //database user name
$pass = 'kumar'; //database password $conn

= mysqli_connect($host, $user, $pass);

mysqli_close($conn)</pre>
```

?>
Mysqli_connect Video Reference



Mysqli_query()

- This function is used to execute SQL quires
- bool mysqli_query(resource \$ling, string \$query)

Mysqli_query() Create Database Example

```
<?php
    $host = 'localhost:3306';
    $user = 'shiva';
    $pass = 'kumar';
    $conn = mysqli_connect($host, $user, $pass);
    $sql = 'CREATE DATABASE test';
    if(mysqli_query($conn, $sql)){ echo
    "Database created successfully";
    }else{ echo "Error while create
          database");
```

table"); }

?> Mysqli_query() Create Table Example <?php \$host = 'localhost:3306'; \$user = 'shiva'; \$pass = 'kumar'; \$dbname = 'test'; \$conn = mysqli_connect(\$host, \$user, \$pass,\$dbname); \$sql = 'CREAT TABLE emp(ename varchar(40), salary numeric(5,0))'; if(mysqli_query(\$conn, \$sql)){ echo "Table created successfully"; }else{ echo "Error while creating

?>

Mysqli_query() Insert Example

```
<?php
    $host = 'localhost:3306';
    $user = 'shiva';
    $pass = 'kumar';
    $dbname = 'test';
    $conn = mysqli_connect($host, $user, $pass,$dbname);
    $sql = 'INSERT INTO emp VALUES ("shiva", 9000)';
    if(mysqli_query($conn, $sql)){ echo
          "Record inserted successfully";
    }else{ echo "Error while inserting
         record");
```

```
?>
Mysqli_query() Insert Example-2
   <?php
       $host = 'localhost:3306';
       $user = 'shiva';
       $pass = 'kumar';
       $dbname = 'test';
       $conn = mysqli_connect($host, $user, $pass,$dbname);
       $sql = 'INSERT INTO emp(ename) VALUES ("kumar")';
       if(mysqli_query($conn, $sql)){ echo
             "Record inserted successfully";
```

```
}else{ echo "Error while inserting
             record");
   ?>
Mysqli_query() Delete Example
   <?php
       $host = 'localhost:3306';
       $user = 'shiva';
       $pass = 'kumar';
       $dbname = 'test';
       $conn = mysqli_connect($host, $user, $pass,$dbname);
```

```
$sql = DELETE FROM emp WHERE
salary=1000'; if(mysqli_query($conn, $sql)){ echo
"Record deleted successfully";
}else{ echo "Error while deleting
     record");
```



Mysqli_query() Delete Example-2

```
<?php
    host = localhost: 3306';
    $user = 'shiva';
    $pass = 'kumar';
    $dbname = 'test';
    $conn = mysqli_connect($host, $user, $pass,$dbname);
    $sql = DELETE FROM emp WHERE salary < 50000 or ename="shiva";
    if(mysqli_query($conn, $sql)){ echo "Record deleted successfully";
    }else{ echo "Error while deleting
          record");
?>
```



Mysqli_query() Update Example

```
<?php
    host = localhost: 3306';
    $user = 'shiva';
    $pass = 'kumar';
    $dbname = 'test';
    $conn = mysqli_connect($host, $user, $pass,$dbname);
    $sql = 'UPDATE emp SET salary=25400 WHERE
    ename="shiva"; if(mysqli_query($conn, $sql)){ echo "Record
    updated successfully";
```



```
}else{ echo "Error while updating
             record");
Mysqli_query() Update Example-2
   <?php
       $host = 'localhost:3306';
       $user = 'shiva';
       $pass = 'kumar';
       $dbname = 'test';
       $conn = mysqli_connect($host, $user, $pass,$dbname);
       $sql = 'UPDATE emp SET salary=35400 WHERE salary < 30000 and salary >
       25000'; if(mysqli_query($conn, $sql)){ echo "Record updated successfully";
   ?>
```



}else{ echo "Error while updating record");



?>



Mysqli_query() Select Example

```
<?php
    $host = 'localhost:3306'; $user = 'shiva'; $pass = 'kumar'; $dbname = 'test';
    $conn = mysqli_connect($host, $user, $pass,$dbname);
    $sql = 'SELECT * FROM emp';
    $retval=mysqli_query($conn, $sql);
    if(mysqli_num_rows($retval) > 0){ while($row
     = mysqli_fetch_assoc($retval)){ echo "EMP
     NAME:{$row['ename']} <br>".
                    "EMP SALARY: {$row['salary']} <br>".
         "-----<br>";
    }else{ echo "0
    results";
```



?>

Mysqli_query() Select Example-2

```
<?php
    $host = 'localhost:3306'; $user = 'shiva'; $pass = 'kumar'; $dbname = 'test';
    $conn = mysqli_connect($host, $user, $pass,$dbname);
    $sql = 'SELECT ename FROM emp where salary > 30000';
    $retval=mysqli_query($conn, $sql);
    if(mysqli_num_rows($retval) > 0){ while($row
     = mysqli_fetch_assoc($retval)){
       echo "EMP NAME :{$row['ename']} <br>".
         "-----<br>";
    }else{ echo "0
    results";
```



?>

Mysqli_query Video Reference





Displaying queries in tables

To populate a new database table with data you will first need an HTML page which will collect that data from the user. The following HTML code that and passes the information to a PHP script:

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

Value1: <input type="text" name="field1-name" />

Value2: <input type="text" name="field2-name" />

Value3: <input type="text" name="field3-name" />

Value4: <input type="text" name="field4-name" />

Value5: <input type="text" name="field5-name" />

<input type="Submit" /></form>
```

The above HTML code will show the user 5 text fields, in which the user can input data and a Submit button. Upon clicking the Submit button the data submitted by the user will be passed to a script named insert.php.



Displaying queries in tables

The insert.php script can have a syntax similar to the following:

```
<?php
$username = "your_username";
$password = "your_password";
$database = "your database";
$field1-name=$_POST['Value1'];
$field2-name=$ POST['Value2'];
$field3-name=$ POST['Value3'];
$field4-name=$ POST['Value4'];
$field5-name=$ POST['Value5'];
$mysqli = new mysqli("localhost", $username, $password, $database);
@mysql_select_db($database) or die("Unable to select database");
$query = "INSERT INTO tablename VALUES(",'$field1-name','$field2-name','$field3-name','$field4-
name','$f ield5-name')";
```



```
$mysqli->query($query);
$mysqli->close();
?>
```

Displaying queries in tables

After the user submits the information, the **insert.php** script will save it in the database table. Then you may want to output that information, so that the user can see it on the page.

```
<?php
$username="username";
$password="password";
$database="your_database";
$mysqli = new mysqli("localhost", $username, $password, $database);
@mysql_select_db($database) or die( "Unable to select database");
$query2="SELECT * FROM tablename";
$result=$mysqli->query($query2);
$num=$mysqli->mysqli_num_rows($result);
```



```
$mysqli->close();
     echo "<b>
     <center>Database Output</center>
     </b>
     <br>
     <br>";
Displaying queries in tables
     $i=0; while ($i <
     $num) {
     $field1-name=mysql_result($result,$i,"field1-name");
     $field2-name=mysql_result($result,$i,"field2-name");
           $field3-name=mysql_result($result,$i,"field3-name"); $field4-
               name=mysql_result($result,$i,"field4-name"); $field5-
                  name=mysql_result($result,$i,"field5-name");
     echo "<b>
     $field1-name $field2-name2</b>
```



```
<br>
$field3-name<br>
$field4-name<br>
$field5-name<hr>
<br>";
$i++;
?>
                Assignment
```

Assignment

1. Create a simple HTML form as shown and PHP script to display the data user enters back to the browser.



Name:			7.7		
Age:					
Choose	a Color:	Red	~		
Choose	the mont	th you w	ere born i	n: January	~
Subm	it Query				

2. Create a PHP script to upload JPG files of size not more than 5MB.

E-book Links

Module / Unit Keyword/Topic E-Book Name Chapter Page Number URL Comments
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4	PHP Introduction and Installati <mark>on</mark>	PHP6/MySQL Programming for the Absolute Beginner	. Chapter 1	Page No: 3-12	http://www.it- docs.net/ddata/391. pdf	Gives an overview about PHP and explains PHP installation.
4	PHP Basics	PHP6/MySQL Programming for the Absolute Beginner	. Chapter 2 ,3,4	Page No: 21-93 Page No. 102-25	http://www.it- docs.net/ddata/391. pdf	Explains the basics - input, variables, loops, decisions and arrays.
4	PHP Files	PHP6/MySQL Programming for the Absolute Beginner	. Chapter 6	Page No: 201 - 210	http://www.it- docs.net/ddata/391. pdf	Explains how to open, read, write and close a file using example.



Web Reference Links

Sno	Chapter	Topic	URL	Notes
1	HTML and PHP	PHP Basics	https://www.w3schools.com/p hp/php_syntax.asp	A tutorial link for PHP. Covers the basics of PHP.
			https://www.tutorialspoint .com/php/php_syntax_ove rview.htm	A tutorial link for PHP. Covers the basics of PHP.
2	HTML and PHP	PHP Forms	https://www.w3schools.com/p hp/php_forms.asp	The links explains how form data is handled in PHP using examples.
3	HTML and PHP	PHP File Handling	https://www.tutorialspoint.co m/php/php_files.htm	Explains how file handling is done in PHP.
4	HTML and PHP	Displaying queries in tables	https://www.siteground.com/t utorials/php-mysql/display- table-data/	Explains inserting data into tables using MySQL queries



Video Links

Sno	Topic	URL	Notes
1	PHP Basics	https://www.youtube.com/watch? v=vC4zncpdma0&list=PLd1aagDQe k4svIjgulQvBXeXvQoKJHEdS	
2	PHP Forms	https://www.youtube.com/watch? v=doobakPif3s	The video explains how form data is handled in PHP using examples.
3	PHP File Handling	https://www.youtube.com/watch? v=lvbTtrudQYY	Explains how file handling is done in PHP.