PHP Tutorial

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Agenda

- Demo of project 1A
- Introduce to PHP

- Q & A

Demo

Project 1A

Scripting block

- <?php

  you PHP code here

  ?>

First example

```
<html>
<body>
 <?php
        echo "Hello World";

        /*
        I’m comment
        */
?>
</body>
</html>
```

Variable in PHP

- start with a $ sign symbol
- Loosely Typed Language
  - does not need to be declared
  - start with a letter or an underscore "_“
  - alpha-numeric characters and underscores (a-Z, 0-9, and _)
  - not contain spaces

String

- $txt="Hello World";
- concatenation operator (.)

  -
    ```
    <?php
    $txt1="Hello World";
    $txt2="1234";
    echo $txt1 . " " . $txt2;
    ?>
    ```

Operators

- **Arithmetic**
  - **+, -, *, /, %, ++, --**
- **Assignment**
  - **=, +=, -=, *=, /=, .=, %=**
- **Comparison**
  - ==, !=, >, <, >=, <=
- **Logical**
  - &&, ||, !

It’s time to introuce…

- Zend Studio
- http://www.zend.com/en/products/studio/

A useful resource

- http://us2.php.net/manual/en/

if…else

- if (*condition*)
  - *code to be executed if condition is true;*
- elseif (*condition*)
  - *code to be executed if condition is true;*
- else
  - *code to be executed if condition is false;*

example of if~else

```
<html>
<body>

<?php
$d=date("D");
if ($d=="Fri")
  echo "Have a nice weekend!";
elseif ($d=="Sun")
  echo "Have a nice Sunday!";
else
  echo "Have a nice day!";
?>

</body>
</html>
```

switch

```
<html>
<body>

<?php
switch ($x)
{
case 1:
  echo "Number 1";
  break;
case 2:
  echo "Number 2";
  break;
case 3:
  echo "Number 3";
  break;
default:
  echo "No number between 1 and 3";
}
?>

</body>
</html>
```

Arrays

- $names = array("Peter","Quagmire","Joe");
- $names[0] = "Peter";
- $names[1] = "Quagmire";
- $names[2] = "Joe";

Associative Arrays

- $ages = array("Peter"=>32, "Quagmire"=>30, "Joe"=>34);
- $ages['Peter'] = "32";
  $ages['Quagmire'] = "30";
  $ages['Joe'] = "34";
- Example
  - <?php
    - $ages['Peter'] = "32";
    - $ages['Quagmire'] = "30";
    - $ages['Joe'] = "34";

    - echo "Peter is " . $ages['Peter'] . " years old.";
  - ?>

Looping ~ while

```
<html>
<body>

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

</body>
</html>
```

Looping ~ for

- for (*init; cond; incr*)
  { *code to be executed;* }
- Example

```
<html>
<body>

<?php
for ($i=1; $i<=5; $i++)
{
  echo "Hello World!<br />";
}
?>

</body>
</html>
```

functions

```
<html>
<body>

<?php
    function writeMyName()
     {
     echo "Kai Jim Refsnes";
     }

    echo "Hello world!<br />";
    echo "My name is ";
    writeMyName();
    echo ".<br />That's right, ";
    writeMyName();
    echo " is my name.";
?>

</body>
</html>
```

How to handle GET

```
<html>
<body>

<form action="handle.php" method="GET">
Name: <input type="text" name="name" />
Age: <input type="text" name="age" />
<input type="submit" />
</form>
<?php
if($_GET["name"]){
    echo "Welcome ".$_GET["name"]."<br />";
    echo "You are ".$_GET["age"]." years old.";
}
?>
</body>
</html>
```

Hint for project 1A

- eval
- Example:

```
<html>
<body>

<?php
    $equ = "3+4*5";
    eval("\$ans = $equ ;");
    echo "ans = ".$ans;
?>
</body>
</html>
```

Hint for Project 1A

- preg_match

```
<html>
<body>
  <?
 preg_match("/^(http:\/\/)?([^\/]+)/i",
 "http://www.php.net/index.html", $matches);
 print $host = $matches[0]."<BR>";
 print $host = $matches[1]."<BR>";
 print $host = $matches[2]."<BR>";

 // get last two segments of host name
 preg_match("/[^\.\/]+\.[^\.\/]+$/","http://www.php.net",$matches);
 echo "domain name is: ".$matches[0]."\n";
 ?>
</body>
</html>
```

matches

- If *matches* is provided, then it is filled with the results of search.
  - *$matches[0] will contain the text that matched the full pattern,*
  - *$matches[1] will have the text that matched the first captured parenthesized subpattern,*
  - *and so on.*