PHP

- Server-side technologies
 - -ASP
 - -PHP



- Active Server Pages (ASP)
 - —Stands for Active Server Pages, a Microsoft technology
 - —ASP allows you to use several different scripting languages for creating server-side "programs"
 - –ASP supports JavaScript (Jscript in Microsoft terminology) and VBScript
 - ASP applications in files have an extension of .asp
 - ASP files are created as text files and can contain embedded client-side JavaScript



- Active Server Pages (ASP)
 - —ASP uses the script delimiters <% and %> to designate server-side scripting code (and so separate it from 'real' HTML)
 - { A delimiter is a character or a sequence of characters used to mark the beginning and end of a code segment }
 - <% Response.Write("Hello World") %>



- Mixing HTML and Server-Side scripts
 - Before a Microsoft Web server delivers an ASP
 document containing server-side scripts to a client, it
 executes the contents of any script delimiters
 - —If users view the source document after they receive the (output of) the ASP document, they would not see any <%...%> script delimiters, or the script code they contain
 - Instead, the client gets and renders only the results returned by the code (and any HTML not in delimiters)



```
Header 1
```







Result: 300



PHP

- Originally stood for Pretty Home Pages
- —Stands (now) for Hypertext Preprocessor
- A server-side scripting language, like ASP, so scripts
 are executed on the server
- –Supports many databases (MySQL, Informix, Oracle,Sybase, Solid, PostgreSQL, Generic ODBC, etc.)
- Open source software (OSS), so server extensions are
 free to download and use
- -File extension .php, .php3 or .phtml



PHP

- —A PHP file normally contains HTML tags, just like an HTML file, and some PHP scripting code
- -Starts with <?php and ends with ?>. A PHP scripting block can be placed anywhere in the document
- -Each code line in PHP must end with a semicolon



• PHP

-Two basic statements to output text with PHP: echo and print

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



• PHP

 All variables in PHP start with a \$ sign symbol. Variables may contain strings, numbers, or arrays.

```
$txt="Hello World";
```

To concatenate two or more variables together, use the dot (.) operator

```
php$txt1="Hello World";

$txt2="1234";

echo $txt1 . " " . $txt2;

?>
```

-// for a single-line comment, /* and */ for a large comment block.



- PHP operators
 - Arithmetic Operators

Assignment Operators

-Comparison Operators

Logical Operators



- PHP conditional statements
 - -Two conditional statements
 - if (...else) use if you want to execute a set of code when a condition is true (and another if the condition is not true)
 - switch use if you want to select one of many sets of lines to execute



- PHP looping statements
 - —Four looping statements:
 - while loops through a block of code as long as a specified condition is true
 - do...while loops through a block of code once, and then repeats the loop as long as a special condition is true
 - for loops through a block of code a specified number of times
 - foreach loops through a block of code for each element in an array



- PHP functions
 - -header() function
 - Used to send raw HTTP headers over the HTTP protocol
 - Must be called before anything is written to the page!

```
<?php

//Redirect browser

header("Location: http://www.deakin.edu.au/")
?>
<html>
<body>.....</body>
</html>
```



PHP functions

- —The fopen() function is used to open files in PHP
- —First parameter is the name of the file to be opened
- —Second parameter specifies in which mode the file should be opened: r, r+, w, w+, a, a+, x, x+



• PHP functions

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

?>
</body>
</html>
```



PHP form handling

 Any form element in an HTML page will automatically be available to your PHP scripts.

```
<html>
<head>
<title>Login Script</title>
</head>
<body>
You entered this login information:
Login : <?php print $login ?><br>
Password : <?php print $password ?><br>
</body>
<html>
```

Results in

You entered this login information:

Login: (whatever you typed)

Password: (whatever you typed)



ASP and PHP

- Both technologies allow webmasters to increase the features and functionalities of their website.
- —Both technologies also require that a program is installed on the web server.
- Both technologies also enable a web server to interact with a Database Management System (DBMS). Eg. PHP to MySQL, and ASP to MS Access or SQL Server.
- Both languages return standard HTML code to the user's web browser.



- ASP vs. PHP
 - —PHP is generally faster to interpret
 - Better management of memory
 - PHP only loads include files that are actually required
 - Better coding structure
 - PHP has C or Java style loops and script symbols
 - Wide platform range
 - PHP can run on Linux, Solaris, Windows, and so many other operating systems as well



Summary

- PHP coding is cleaner and faster than ASP. This is because
 PHP is very similar to more efficient languages like C++.
- PHP is open source. You can even make modification to the source code to make the PHP processor run exactly the way you want.



Summary

- ASP is automatically supported only on Microsoft's IIS server for Windows
- Other servers require commercial or freeware extensions to be installed
- PHP will run on just about any OS/web server combination.
- PHP has been optimized to run with Linux/Apache/MySQL combination.



- Summary
 - PHP runs generally faster than ASP
 - PHP does not require you to be use a specific Web Server or operating system
 - This makes it flexible to choose what environment you wish to have for your script.

