1. PHP Syntax

```
A PHP script starts with <?php and ends with ?>:
<?php
// PHP code goes here
?>
```

2. PHP Case Sensitivity

In PHP, NO keywords (e.g. if, else, while, echo, etc.), classes, functions, and user-defined functions are case-sensitive.

Example

```
<!DOCTYPE html>
<html>
<body>
<?php
ECHO "Hello World!<br>";
echo "Hello World!<br>";
EcHo "Hello World!<br>";
?>
</body>
</html>
```

Note: However; all variable names are case-sensitive!

3. Comments in PHP

Examples:

```
Syntax for single-line comments:
```

Syntax for multiple-line comments:

Using comments to leave out parts of the code:

4. PHP Variables

Creating (Declaring) PHP Variables

In PHP, a variable starts with the \$ sign, followed by the name of the variable:

Example

```
<?php
     $txt = "Hello world!";
     $x = 5;
     $y = 10.5;
</pre>
```

Note: When you assign a text value to a variable, put quotes around the value.

Rules for PHP variables:

- A variable starts with the \$ sign, followed by the name of the variable
- A variable name must start with a letter or the underscore character
- A variable name cannot start with a number
- A variable name can only contain alpha-numeric characters and underscores (A-z, 0-9, and _)
- Variable names are case-sensitive (\$age and \$AGE are two different variables)

Remember that PHP variable names are case-sensitive!

PHP is a Loosely Typed Language

PHP automatically associates a data type to the variable, depending on its value. Since the data types are not set in a strict sense, you can do things like adding a string to an integer without causing an error.

5. PHP Variables Scope

In PHP, variables can be declared anywhere in the script.

The scope of a variable is the part of the script where the variable can be referenced/used.

PHP has three different variable scopes:

- 1. local
- 2. global
- 3. static.

i. Global and Local Scope

A variable declared outside a function has a GLOBAL SCOPE and can only be accessed outside a function:

Example:

Variable with global scope:

A variable declared within a function has a **LOCAL SCOPE** and can only be accessed within that function:

Example:

Variable with local scope:

You can have local variables with the same name in different functions, because local variables are only recognized by the function in which they are declared.

ii. PHP The global Keyword

The global keyword is used to access a global variable from within a function.

To do this, use the global keyword before the variables (inside the function):

Example:

iii. PHP The static Keyword

Normally, when a function is completed/executed, all of its variables are deleted. However, sometimes we want a local variable NOT to be deleted. We need it for a further job.

To do this, use the static keyword when you first declare the variable:

Example:

```
<?php
    function myTest(){
        static $x = 0;
        echo $x;
        $x++;
    }
    myTest();
    myTest();
    myTest();
    />
```

6. PHP String Functions

- > strlen() Return the Length of a String
- > str_word_count() Count Words in a String
- > strrev() Reverse a String
- > strpos() Search For a Text Within a String
 - The PHP strpos() function searches for a specific text within a string. If a
 match is found, the function returns the character position of the first match. If
 no match is found, it will return FALSE
- > str_replace() Replace Text Within a String