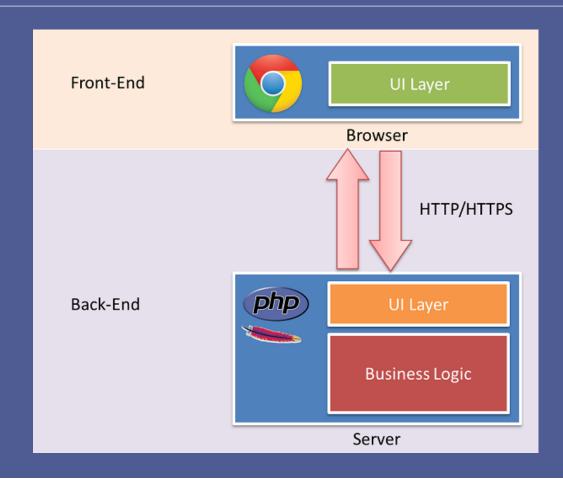
PHP BASIC

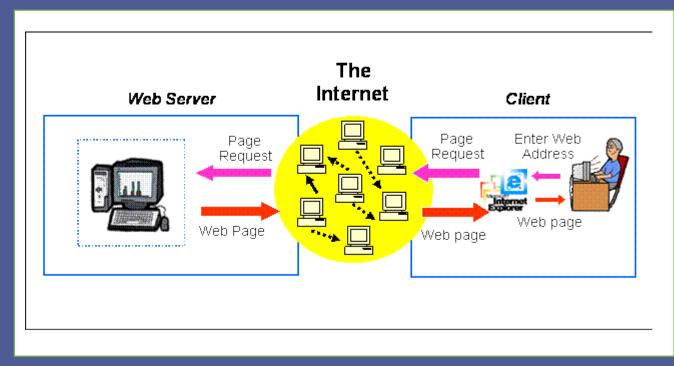
BEFORE WE GET STARTED

- Using Windows 10 or Ubuntu
 16.04.
- 2. Installed Git.
- 3. Installed Chrome Web Browser.
- 4. Installed VS Code.

- 5. Installed XAMPP for Windows PHP7.0.
- 6. Checkout :
 https://github.com/namnh06/aptech-php-course

HOW THE WEBSITE WORKS?





SET UP ENVIROMENT

- 1. Turn on Git Bash (on Windows).
- 2. Move to C:/xampp/htdocs/ by command line : cd /c/xampp/htdocs -> Enter.
- 3. Clone Repository by Git Hub, using this command line: git clone https://github.com/namnh06/aptech-php-course.git -> Enter.
- 4. Using this repository to learn and get homework, exercise from there.
- 5. Create your repository with convention code: Aptech-php-*-your-name. E.G: Aptech-php-12-nam-nh.
- 6. Push your repository to Git Hub and do your home work.

SYNTAX, ECHO, COMMENT

- PHP files have ".php" extension.
- PHP script always starts with <?php and end with ?>, in some case no need to close ?>
 in file .php. The end of statement of code always need ";".
- Comment starts with "//", "#" or "/* */".
- Output into HTML Dom by using "echo", "print",
 "print_r" or "var_dump".
- Can write HTML, CSS, Javascript inside ".php" file.

VARIABLE, CONSTANT

- Variable starts with "\$" (dollar sign), no need to declare type of variable.
- Variable name must start with a letter or underscore character "_" and can not start with number.
- Variable name can only contain alpha-numeric characters and underscores (A-z, 0-9 and _).
- Using "global", "static" keyword to make variable "special".
- Using function "define" to create a constant.

```
<?php
   $currentYear = 2018;
   function forecast()
        global $currentYear;
        $nextYear = ++$currentYear;
        echo "Next Year is $nextYear";
   forecast();
   <?php
   define("CURRENT YEAR", 2018);
   function forecast()
       $nextYear = CURRENT YEAR + 1;
       echo "Next Year is $nextYear";
8
   forecast();
```

DATA TYPES

- String: a sequence of characters.
- Integer: non-decimal number between -2,147,483,648 and 2,147,483,647.
- Float : decimal number.
- Boolean : TRUE/FALSE.
- Array : stores multiple values.
- Object : stores data and information or properties and function.
- NULL: is NULL.

```
1  <?php
2
3  $string = "Hello World";
4
5  $integer = 2018;
6
7  $float = 99.99;
8
9  $boolean = true;
10
11  $array = [1, 2, 3, 4, 5];</pre>
```

OPERATORS

Arithmetic Operators

Operator	Name	Example	Result
+	Addition	\$x + \$y	Sum of \$x and \$y
-	Subtraction	\$x - \$y	Difference of \$x and \$y
*	Multiplication	\$x * \$y	Product of \$x and \$y
/	Division	\$x / \$y	Quotient of \$x and \$y
%	Modulus	\$x % \$y	Remainder of \$x divided by \$y
**	Exponentiation	\$x ** \$y	Result of raising \$x to the \$y'th power (Introduced in PHP 5.6)

```
<?php
    $three = 3;
    $nine = 9;
    // Additional
    $twelve = $three + $nine;
    // Subtraction
    $six = $nine - $three;
10
    // Multiplication
    $twentySeventh = $nine * $three;
13
    // Division
    $anotherThree = $nine / $three;
16
    // Modulus
17
    $zero = $none % $three;
19
    // Exponentiation
    $sevenHundredAndTwentyNinth = $nine ** $three;
```

OPERATORS (cont. 1)

Assignment Operators

Assignment	Same as	Description
x = y	x = y	The left operand gets set to the value of the expression on the right
x += y	x = x + y	Addition
x -= y	x = x - y	Subtraction
x *= y	x = x * y	Multiplication
x /= y	x = x / y	Division
x %= y	x = x % y	Modulus

OPERATORS (cont. 2)

Comparison Operators

Increment/Decrement Operators

Operator	Name	Description
++\$x	Pre-increment	Increments \$x by one, then returns \$x
\$x++	Post-increment	Returns \$x, then increments \$x by one
\$x	Pre-decrement	Decrements \$x by one, then returns \$x
\$x	Post-decrement	Returns \$x, then decrements \$x by one

Operator	Name	Example	Result
==	Equal	\$x == \$y	Returns true if \$x is equal to \$y
===	Identical	\$x === \$y	Returns true if \$x is equal to \$y, and they are of the same type
!=	Not equal	\$x != \$y	Returns true if \$x is not equal to \$y
<>	Not equal	\$x <> \$y	Returns true if \$x is not equal to \$y
!==	Not identical	\$x !== \$y	Returns true if \$x is not equal to \$y, or they are not of the same type
>	Greater than	\$x > \$y	Returns true if \$x is greater than \$y
<	Less than	\$x < \$y	Returns true if \$x is less than \$y
>=	Greater than or equal to	\$x >= \$y	Returns true if \$x is greater than or equal to \$y
<=	Less than or equal to	\$x <= \$y	Returns true if \$x is less than or equal to \$y

OPERATORS (cont. 3)

Operator	Name	Example	Result
and	And	\$x and \$y	True if both \$x and \$y are true
or	Or	\$x or \$y	True if either \$x or \$y is true
xor	Xor	\$x xor \$y	True if either \$x or \$y is true, but not both
&&	And	\$x && \$y	True if both \$x and \$y are true
П	Or	\$x \$y	True if either \$x or \$y is true
!	Not	!\$x	True if \$x is not true

Logical Operators

String Operators

Operator	Name	Example	Result
	Concatenation	\$txt1 . \$txt2	Concatenation of \$txt1 and \$txt2
.=	Concatenation assignment	\$txt1 .= \$txt2	Appends \$txt2 to \$txt1

OPERATORS (cont. 4)

Array Operators

Operator	Name	Example	Result
+	Union	\$x + \$y	Union of \$x and \$y
==	Equality	\$x == \$y	Returns true if \$x and \$y have the same key/value pairs
===	Identity	\$x === \$y	Returns true if \$x and \$y have the same key/value pairs in the same order and of the same types
!=	Inequality	\$x != \$y	Returns true if \$x is not equal to \$y
<>	Inequality	\$x <> \$y	Returns true if \$x is not equal to \$y
!==	Non-identity	\$x !== \$y	Returns true if \$x is not identical to \$y

CONDITION STATMENTS

- If
- If ... else
- If ... else if ... else
- Switch case

```
<?php
    number = 10;
 5 □ if ($number === 10) {
        echo "$number === 10";
 7 ∃ } else {
        echo "$number is someone else";
11 ∃ if ($number > 10) {
        echo "$number is greater than 10.";
13 □ } else if ($number < 10) {
        echo "$number is less than 10.";
15 ∃ } else {
        echo "$number is equal 10.";
17
```

```
<?php
    define("SPRING", 5);
    define("SUMMER", 10);
    define("AUTUMN", 15);
    define("WINTER", 20);
    $yourCoupon = "spring";
    $discountPercent = 0;
    switch (strtoupper($yourCoupon)) {
        case "SPRING":
            $discountPercent = SPRING;
12
            break;
        case "SUMMER":
            $discountPercent = SUMMER;
            break;
        case "AUTUMN":
            $discountPercent = AUTUMN;
            break;
        case "WINTER":
            $discountPercent = WINTER;
            break;
        default:
            $discountPercent = 0;
24
    echo $discountPercent;
```

LOOPS

```
While
```

Do ... While

For

Foreach

FUNCTIONS

- A function name can start with a letter or underscore (not a number).
- Give the function a name that reflects what the function does!
- PHP has more than 1000 built-in functions.

```
1  <?php
2
3  function displayYourName($yourName = "Nam NH")
4  {
5     echo "Here you are <br/>    return $yourName;
7  }
8
9  displayYourName();
10  echo displayYourName("Smith");
```

SUPERGLOBALS

- Built-in variables that are always available in all scopes.
- Always accessible, regardless of scope, can access from any function or file.
 - \$GLOBALS
 - ❖ \$_SERVER
 - \$_REQUEST
 - \$_POST
 - **❖** \$_GET

- \$_FILES
- **♦** \$_ENV
- \$_COOKIE
- ♦ \$_SESSION

TIME TO PRACTICE.

EXERCISE

- 1. Write a PHP script to get the PHP version and configuration information.
- 2. Write a PHP script to display the following strings. E.g: 'My name is Nam'.
- 3. \$var = 'PHP Tutorial'. Put this variable into the title section, h3 tag and as an anchor text within an HTML document.
- 4. Do the operator: 10/5 and print the result.
- 5. Create a variable and use it into an string. E.g: 'hello' + \$var + 'world'.