Running PHP

You can run a php script directly from the server cli by using the php command:

```
paul@odin:~/public_html/cs3680$ php myscript.php
```

You can also execute a php script from the browser by providing the full URL path:

```
https://cs.csub.edu/~paul/cs3680/myscript.php
```

Notice that when you access PHP from the browser, you will only be able to see the output.

PHP code is processed by the server BEFORE a response is sent.

DataTypes

PHP is a loosely typed language. However, there are a few functions to work with types when necessary:

- get or set the state of a variable:
  ```
  isset, unset, empty
  ```
- get or set the type of a variable:
  ```
  gettype, settype
  ```
- type checkers:
  ```
  is_int, is_float, is_string, is_bool, is_array, is_object, is_null, is_resource
  ```

Scope

- **Superglobals**: global scope, already defined
  ```
  $_GET, $_POST, $_GLOBALS, $_COOKIE, $_SESSION, $_FILE, $_ENV, $_REQUEST, $_SERVER
  ```
- **Constants**: global scope, using `define` function
- **Global Variables**: global scope of script, and func **if declared
- **Static Variables**: local to function/class definition, retains value
- **Function Variables**: local to function

Operators

- Assignment: `=`
- Arithmetic: `+ - * / %`
- Arithmetic Assignment: `+= -= *= /= %=`
- String ops: `. .=`
- increment/decrement (pre & post): `++ --`
- Comparison: `< > <= >= == === != !== <>`
- Logic: `&& || ! and or xor`


- Ternary/Conditional: `? :`

Control Structures

- `if(expression) { ... }`
- `if(expression) { ... } else { ... }`
- `if(expression) { ... } elseif( expression) { ... } else { ... }
- `switch($var) { case <int, float, char, string>: ... break; default: ... }`
**Looping**
- while(expression) { ... }
- do { ... }while(expression);
- for(init; test; update) { ... }
- foreach($arr as $key => $val) { ... }

**Turn On Errors & Logging**
//MAKE SURE TO CHMOD YOUR ERROR LOG FILE PERMISSIONS TO 646

date_default_timezone_set("America/Los_Angeles");
ini_set('error_log', 'error.log');
ini_set('display_errors', 1);

**Useful Info**

<?= $value ?> : Shorthand for <php echo $value ?>