Lab 02: Input and Output Using PHP

In this lab, you will get yourself more familiar with PHP codes to receive input from the users and write output to the web browser.

1.1 Writing Output to Web Browser

Similar to CLI desktop application you learnt previously on C#.NET, you use a built-in command to push the text into the output interface (which in this case is the client-side web browser). Keyword echo is commonly used for this purpose.

In addition to being used to write standard string to the web browser, echo can also be combined with a variable. Refer to examples below.

Note that echo does not behave like a function, hence, may not appear in between other functions requesting a return value from echo.

```
echo "Hello World";
echo "This spans
multiple lines. The newlines will be
output as well";
echo "This spans\nmultiple lines. The newlines will be\noutput as well.";
echo "Escaping characters is done \"Like this\".";

// You can use variables inside of an echo statement
$foo = "foobar";
$bar = "barbaz";
echo "foo is $foo"; // foo is foobar

// You can also use arrays
$baz = array("value" => "foo");
echo "this is {$baz['value']} !"; // this is foo !
```

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1.2 Receiving Input from the Users

Unlike in desktop application where user's interaction with the application is direct and immediate, web application does not work in the same fashion. It is detached, by-request and the users have no direct access to the server side.

Users submit data from web browser to the web application residing in the server by means of data transfer across OSI 7 layers.

There are 2 (two) common methods of such data submission, i.e. POST and GET. The data to be transmitted needs to be enveloped in a HTML Form tag at the client side interface.

Example is shown below using POST method. For a GET method, simply replace keyword POST with GET.

```
Name: <input type="text" name="name"><br>E-mail: <input type="text" name="email"><br><input type="text" name="email"><br></input type="submit"></form>
```

Figure 1: Client-side HTML Form tag using POST method

```
echo "Name: ", $_POST["name"];

$email_address = $_POST["email"];
echo "E-mail: ", $email_address;

?>
```

Figure 2: Server-side receiving transmitted data

TODO: Read further on the differences between POST and GET.