

ACTIVITY ANSWER SHEET

Name	KEN VINCENT F. JEMENIA
Section:	BSIT 3R1

Instructions:

- 1. Push your output on your **GITHUB** repository.
- 2. Use the answer sheet provided save it as PDF file then push it to your GitHub.
- 3. Answer the ff. problems write it on the answer sheet.
- 4. Late submissions will no longer be accepted.
- 5. Caught copying outputs of others will be given sanctions.
- 6. Failure to follow these instructions will be given sanctions.

Activity 1: Control Structures

1. Write down the syntax in PHP for the ff.

1. if	<pre><?php if (condition) { # code... } ?></pre>
2. if...else	<pre><?php If(condition){ #code... }else{ #code... } ?></pre>
3. if...else if...else	<pre><?php If(condition){ #code... }else if(condition){ #code... }else{ #code... } ?></pre>
4. switch...case	<pre><?php switch case 'variable': # code... break; ?></pre>
5. for loop	<pre><?php for (init counter; test counter; increment counter) { code to be executed for each iteration; } ?></pre>
6. do while loop	<pre><?php do { code to be executed; } while (condition is true); ?></pre>
7. while loop	<pre><?php while (condition is true) { code to be executed; } ?></pre>
8. foreach loop	<pre><?php foreach (\$variable as \$key => \$value) { # code... } ?></pre>
9. break statement	<pre><?php break; ?></pre>

10. continue statement	<pre><?php continue; ?></pre>
11. try...catch	<pre><?php try { } catch (Exception \$e) { } ?></pre>

2. Solve the ff. problem using PHP.

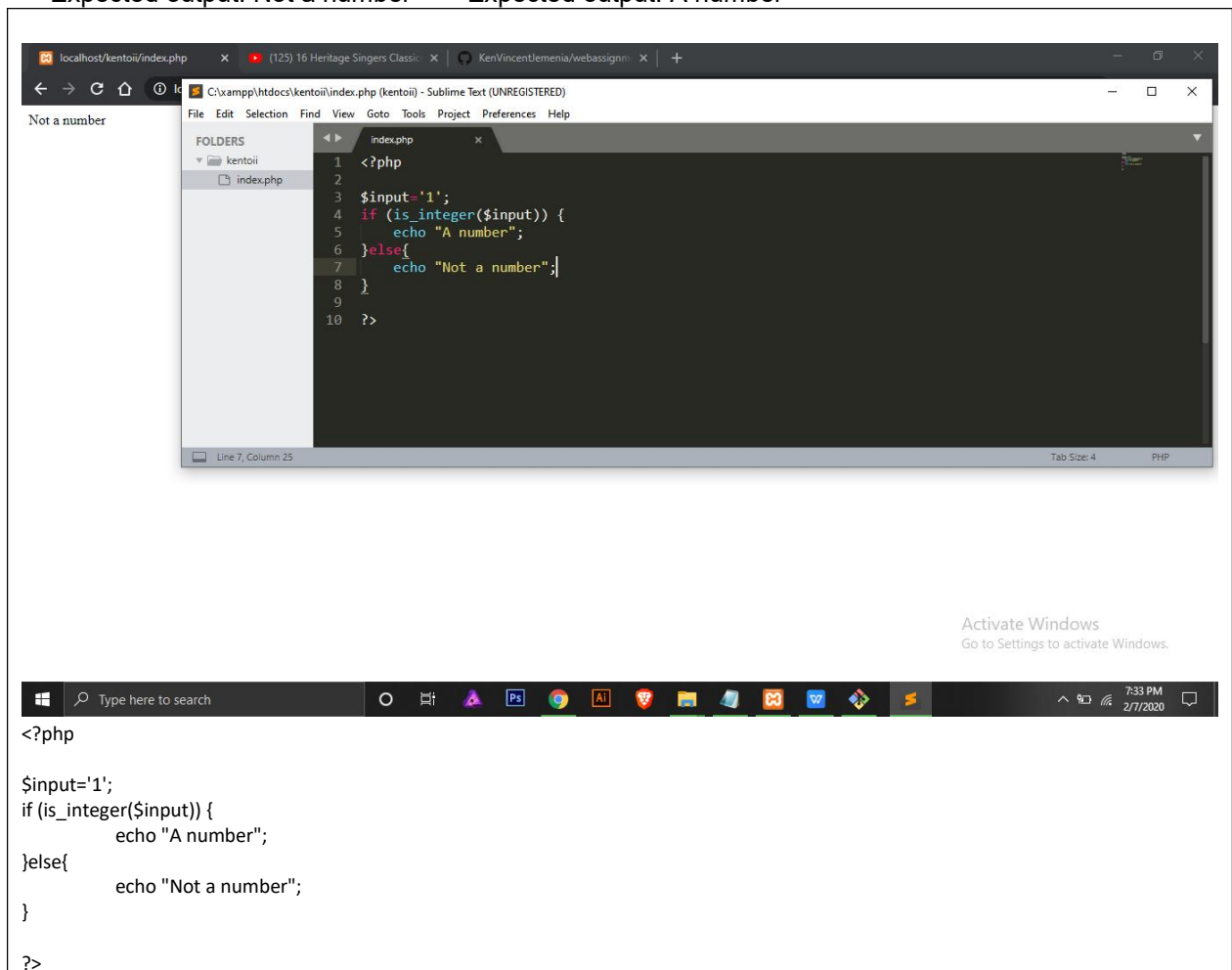
a. Write a program that checks if value is a number (integer).

Sample input: '1'

Sample input: 1

Expected output: Not a number

Expected output: A number



b. Write a program that checks if a value is positive or negative and odd or even.

Sample input: 0

Sample input: -1

Expected output: Positive & Even

Expected output: Negative and Odd



c. Write a program that checks if a value is palindrome.

Sample input: Anna
Expected output: Palindrome

Sample input: Bogart
Expected output: Not a Palindrome

localhost/kentoi/index.php

string Anna is not a Palindrome

C:\xampp\htdocs\kentoi\index.php (kentoi) - Sublime Text (UNREGISTERED)

FOLDERS

index.php

```
1 <?php
2 $name = 'Anna';
3
4 if (strrev($name) == $name) {
5     echo "string $name is a Palindrome";
6 }else{
7     echo "string $name is not a Palindrome";
8 }
9 ?>
```

localhost/kentoi/index.php

string Bogart is not a Palindrome

C:\xampp\htdocs\kentoi\index.php (kentoi) - Sublime Text (UNREGISTERED)

FOLDERS

index.php

```
1 <?php
2 $name = 'Bogart';
3
4 if (strrev($name) == $name) {
5     echo "string $name is a Palindrome";
6 }else{
7     echo "string $name is not a Palindrome";
8 }
9 ?>
```

```
<?php
    $name = 'Bogart';

    if (strrev($name) == $name) {
        echo "string $name is a Palindrome";
    }else{
        echo "string $name is not a Palindrome";
    }

?>
```

d. Write a program to calculate and print the factorial of a number using a for loop.
Sample input: 4
Expected output: 24

localhost/kentoi/index.php

(125) heritage singers - YouTube

KenVincentLemenia/webassignm

← → ↻ 🏠

C:\xampp\htdocs\kentoi\index.php (kentoi) - Sublime Text (UNREGISTERED)

— □ ×

File Edit Selection Find View Goto Tools Project Preferences Help

FOLDERS

▼ kentoi

index.php

1

<?php

2

\$number=4;

3

4

\$incr = 1;

5

6

\$factorial = 1;

7

8

for(\$incr=1;\$incr <= \$number;\$incr++){

9

\$factorial *= \$incr;

10

}

11

echo "Factorial is = \$factorial"

12

?>

Line 11, Column 40

Factorial is = 24

Activate Windows
Go to Settings to activate Windows.
Tab Size: 4 PHP

<?php

\$number=4;

\$incr = 1;

\$factorial = 1;

for(\$incr=1;\$incr <= \$number;\$incr++){

\$factorial *= \$incr;

}

echo "Factorial is = \$factorial"

?>

e. Write a PHP program to generate and display the first n lines of a Floyd triangle.

Sample input: 3

Sample output:

1
2 3
4 5 6

localhost/kentoi/index.php

(125) 16 Heritage Singers Classic

KenVincentLemenia/webassignm

← → ↻ 🏠

C:\xampp\htdocs\kentoi\index.php (kentoi) - Sublime Text (UNREGISTERED)

— □ ×

File Edit Selection Find View Goto Tools Project Preferences Help

FOLDERS

▼ kentoi

index.php

1

<?php

2

\$num = 3;

3

\$incr = 1;

4

for (\$shop1 = \$num; \$shop1 > 0; \$shop1--)

5

{

6

for (\$shop2 = \$shop1; \$shop2 < \$num + 1; \$shop2++)

7

{

8

printf("%4s", \$incr);

9

\$incr++;

10

}

11

echo "
";

12

}

13

?>

Line 2, Column 9

1
2 3
4 5 6

Activate Windows
Go to Settings to activate Windows.
Tab Size: 4 PHP

<?php

\$num = 3;

\$incr = 1;

for (\$shop1 = \$num; \$shop1 > 0; \$shop1--)

{

for (\$shop2 = \$shop1; \$shop2 < \$num + 1; \$shop2++)

{

printf("%4s", \$incr);

\$incr++;

}

echo "
";

}

?>

Activity 2: PHP Built-in Functions

Write down the functionalities of the ff. built-in functions in PHP.

Array	<p>Some of the actions arrays perform include deleting elements, checking for the existence of an element, reversing all of the the elements in an array, and sorting the elements.</p> <p>array_fill() Fills an array with values array_fill_keys() Fills an array with values, specifying keys array_filter() Filters the values of an array using a callback function</p>
Calendar	<p>The calendar extension contains functions that simplifies converting between different calendar formats.</p> <p>cal_days_in_month() Returns the number of days in a month for a specified year and calendar easter_days() Returns the number of days after March 21, that the Easter Day is in a specified year frenchtojd() Converts a French Republican date to a Julian Day Count gregoriantojd() Converts a Gregorian date to a Julian Day Count jddayofweek() Returns the day of the week</p>
Date	<p>The date/time functions allow you to get the date and time from the server where your PHP script runs. You can then use the date/time functions to format the date and time in several ways.</p> <p>checkdate() Validates a Gregorian date date_add() Adds days, months, years, hours, minutes, and seconds to a date date_create_from_format() Returns a new DateTime object formatted according to a specified format</p>

	date_create() Returns a new DateTime object date_date_set() Sets a new date
Directory	The directory functions allow you to retrieve information about directories and their contents. getcwd() Returns the current working directory opendir() Opens a directory handle readdir() Returns an entry from a directory handle rewinddir() Resets a directory handle scandir() Returns an array of files and directories of a specified directory
Error	error functions are used to deal with error handling and logging. display_startup_errors "0" log_errors "0" log_errors_max_len "1024" ignore_repeated_errors "0" ignore_repeated_source "0"
File System	The filesystem functions allow you to access and manipulate the filesystem. allow_url_fopen "1" Allows fopen()-type functions to work with URLs PHP_INI_SYSTEM allow_url_include "0" (available since PHP 5.2) PHP_INI_SYSTEM user_agent NULL Defines the user agent for PHP to send (available since PHP 4.3) PHP_INI_ALL default_socket_timeout "60" Sets the default timeout, in seconds, for socket based streams (available since PHP 4.3) PHP_INI_ALL sys_temp_dir "" (available since PHP 5.5) PHP_INI_SYSTEM
Filter	This PHP filters is used to validate and filter data coming from insecure sources, like user input. filter_id() Returns the filter ID of a specified filter name filter_input() Gets an external variable (e.g. from form input) and optionally filters it filter_input_array() Gets external variables (e.g. from form input) and optionally filters them filter_list() Returns a list of all supported filter names filter_var() Filters a variable with a specified filter
FTP	The FTP functions give client access to file servers through the File Transfer Protocol (FTP). ftp_login() Logs in to the FTP connection

	<p>ftp_mdtm() Returns the last modified time of a specified file</p> <p>ftp_mkdir() Creates a new directory on the FTP server</p> <p>ftp_mlsd() Returns the list of files in the specified directory</p> <p>ftp_nb_continue() Continues retrieving/sending a file (non-blocking)</p>
Libxml	<p>The libxml functions and constants are used together with SimpleXML, XSLT and DOM functions.</p> <p>libxml_clear_errors() Clears the libxml error buffer</p> <p>libxml_disable_entity_loader() Enables the ability to load external entities</p> <p>libxml_get_errors() Gets the errors from the the libxml error buffer</p> <p>libxml_get_last_error() Gets the last error from the the libxml error buffer</p> <p>libxml_set_external_entity_loader() Changes the default external entity loader</p>
Mail	<p>The mail() function allows you to send emails directly from a script.</p> <p>ezmlm_hash() Calculates the hash value needed by EZMLM</p> <p>mail() Allows you to send emails directly from a script</p>
Math	<p>The math functions can handle values within the range of integer and float types.</p>
Misc	<p>The misc. functions were only placed here because none of the other categories seemed to fit.</p> <p>defined() Checks whether a constant exists</p> <p>die() Alias of exit()</p> <p>eval() Evaluates a string as PHP code</p> <p>exit() Prints a message and exits the current script</p> <p>get_browser() Returns the capabilities of the user's browser</p>
MySQLi	<p>The MySQLi functions allows you to access MySQL database servers.</p> <p>errno() Returns the last error code for the most recent function call</p> <p>error() Returns the last error description for the most recent function call</p> <p>error_list() Returns a list of errors for the most recent function call</p> <p>fetch_all() Fetches all result rows as an associative array, a numeric array, or both</p> <p>fetch_array() Fetches a result row as an associative, a numeric array, or both</p>
Network	<p>The Network functions contains various network function and let you manipulate information sent to the</p>

	<p>browser by the Web server, before any other output has been sent.</p> <p>getprotobyname() Returns the protocol number for a given protocol name getprotobynumber() Returns the protocol name for a given protocol number getservbyname() Returns the port number for a given Internet service and protocol getservbyport() Returns the Internet service for a given port and protocol header_register_callback() Calls a header function</p>
SimpleXML	<p>SimpleXML is an extension that allows us to easily manipulate and get XML data.</p> <p>getDocNamespaces() Returns the namespaces declared in document getName() Returns the name of an element getNamespaces() Returns the namespaces used in document registerXPathNamespace() Creates a namespace context for the next XPath query saveXML() Alias of asXML()</p>
Stream	<p>Streams are the way of generalizing file, network, data compression, and other operations which share a common set of functions and uses.</p> <p>stream_context_get_options() stream_context_get_params() stream_context_set_default() stream_context_set_options() stream_context_set_params()</p>
String	<p>The PHP string functions are part of the PHP core. No installation is required to use these functions.</p> <p>crc32() Calculates a 32-bit CRC for a string crypt() One-way string hashing echo() Outputs one or more strings explode() Breaks a string into an array fprintf() Writes a formatted string to a specified output stream</p>
XML Parser	<p>The XML functions lets you parse, but not validate, XML documents.</p> <p>xml_get_current_column_number() Returns the current column number from the XML parser xml_get_current_line_number() Returns the current line number from the XML parser xml_get_error_code() Returns an error code from the XML parser xml_parse() Parses an XML document xml_parse_into_struct() Parses XML</p>

	data into an array
Zip	<p>The Zip files functions allows you to read ZIP files.</p> <p>zip_entry_name() Returns the name of a ZIP directory entry</p> <p>zip_entry_open() Opens a directory entry in a ZIP file for reading</p> <p>zip_entry_read() Reads from an open directory entry in the ZIP file</p> <p>zip_open() Opens a ZIP file archive</p> <p>zip_read() Reads the next file in a open ZIP file archive</p>
Timezones	<p>PHP Date/Time Functions</p> <p>PHP gmdate() Function</p> <p>PHP strtotime() Function</p> <p>PHP Date and Time</p> <p>PHP Tryit Editor v1.1</p>

Activity 3: Regular Expression

1. Define Regular Expression (RegEx) and provide example programming scenario where you can use (RegEx). Provide example syntax in PHP.

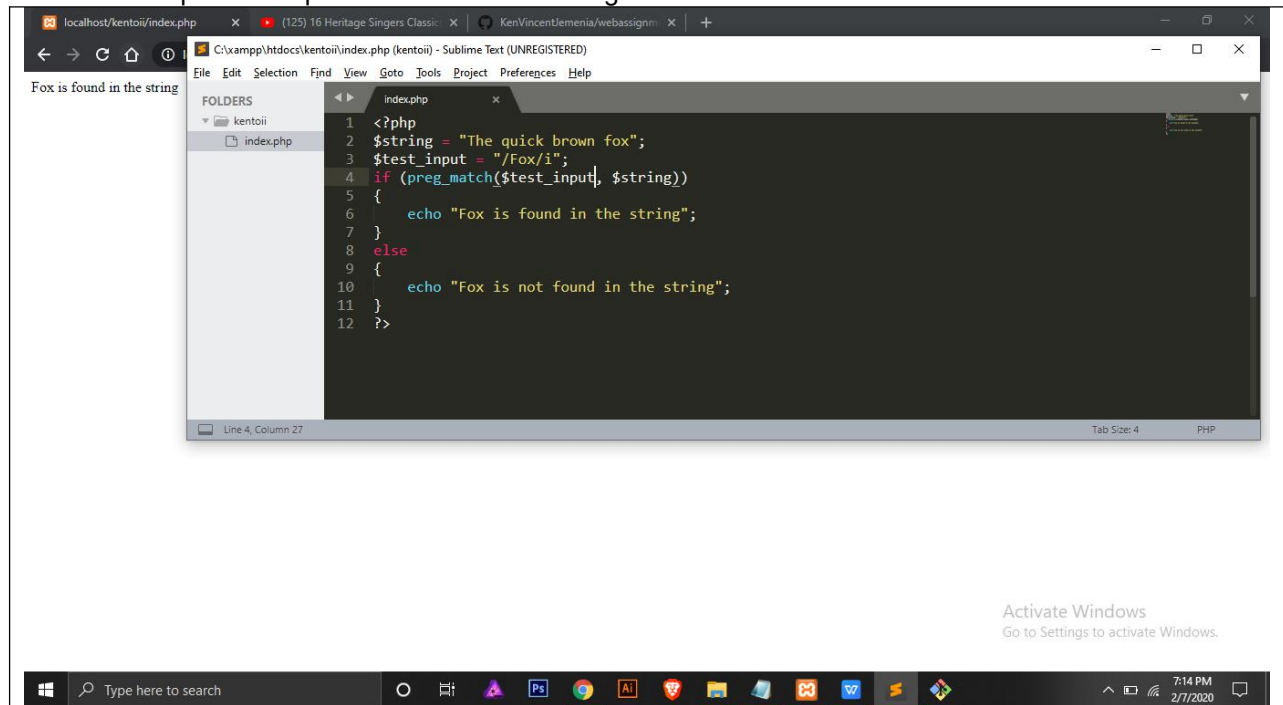
2. Solve the ff. problem using Regular Expressions.

a. Write a PHP script that checks if a string contains another string

Sample String: 'The quick brown fox'

Test input: 'Fox'

Expected output: Fox is found the string



The screenshot shows a web browser at localhost/kentoi/index.php displaying the output "Fox is found in the string". The background code editor shows the following PHP code:

```
1 <?php
2 $string = "The quick brown fox";
3 $test_input = "/Fox/i";
4 if (preg_match($test_input, $string))
5 {
6     echo "Fox is found in the string";
7 }
8 else
9 {
10    echo "Fox is not found in the string";
11 }
12 ?>
```

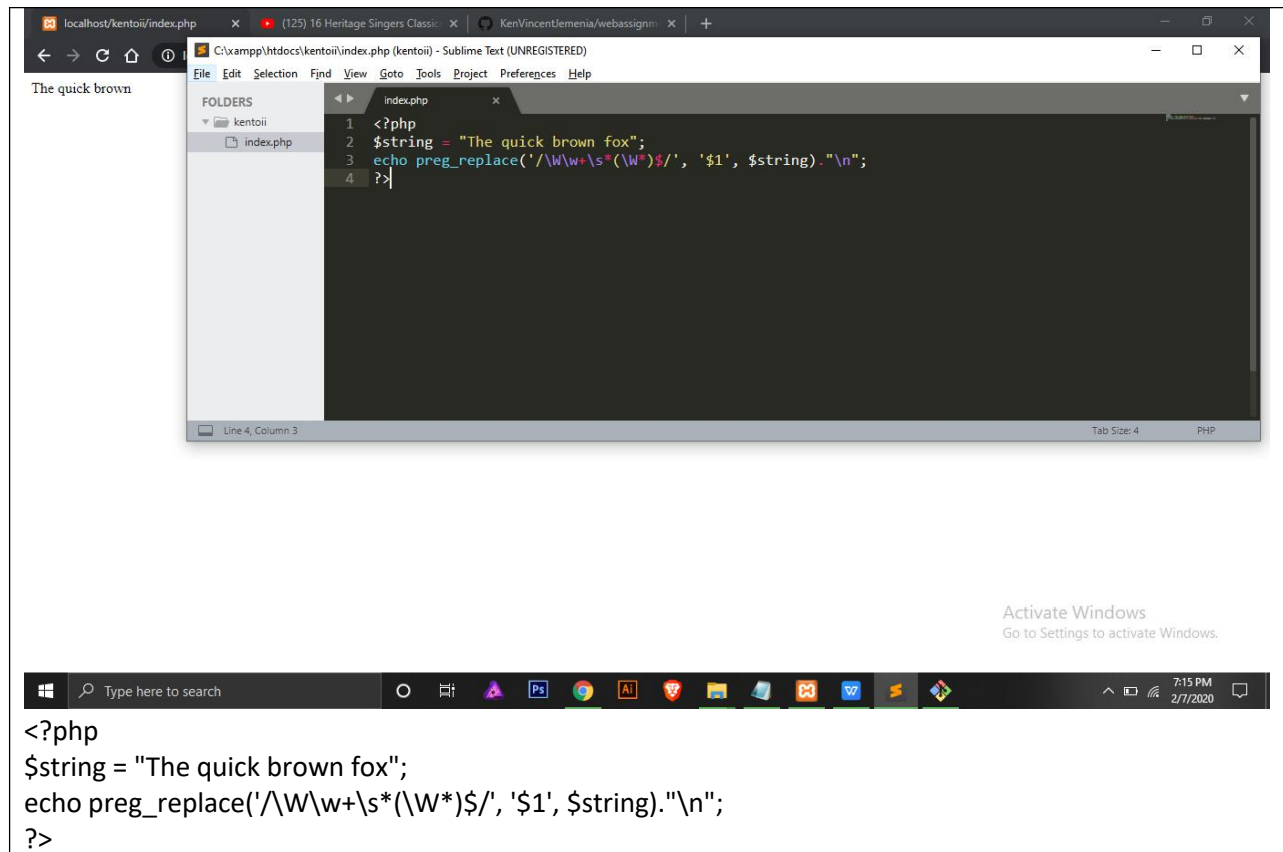
Below the screenshot, the code is repeated in a plain text format:

```
<?php
$string = "The quick brown fox";
$test_input = "/Fox/i";
if (preg_match($test_input, $string))
{
    echo "Fox is found in the string";
}
else
{
    echo "Fox is not found in the string";
}
?>
```

b. Write a PHP script that removes the last word from a string.

Sample String: 'The quick brown fox'

Expected output: 'The quick brown'



The screenshot shows a web browser window with the address bar displaying `localhost/kentoi/index.php`. The browser's address bar also shows the text "The quick brown". The main content area displays the output of the PHP script: "The quick brown fox".

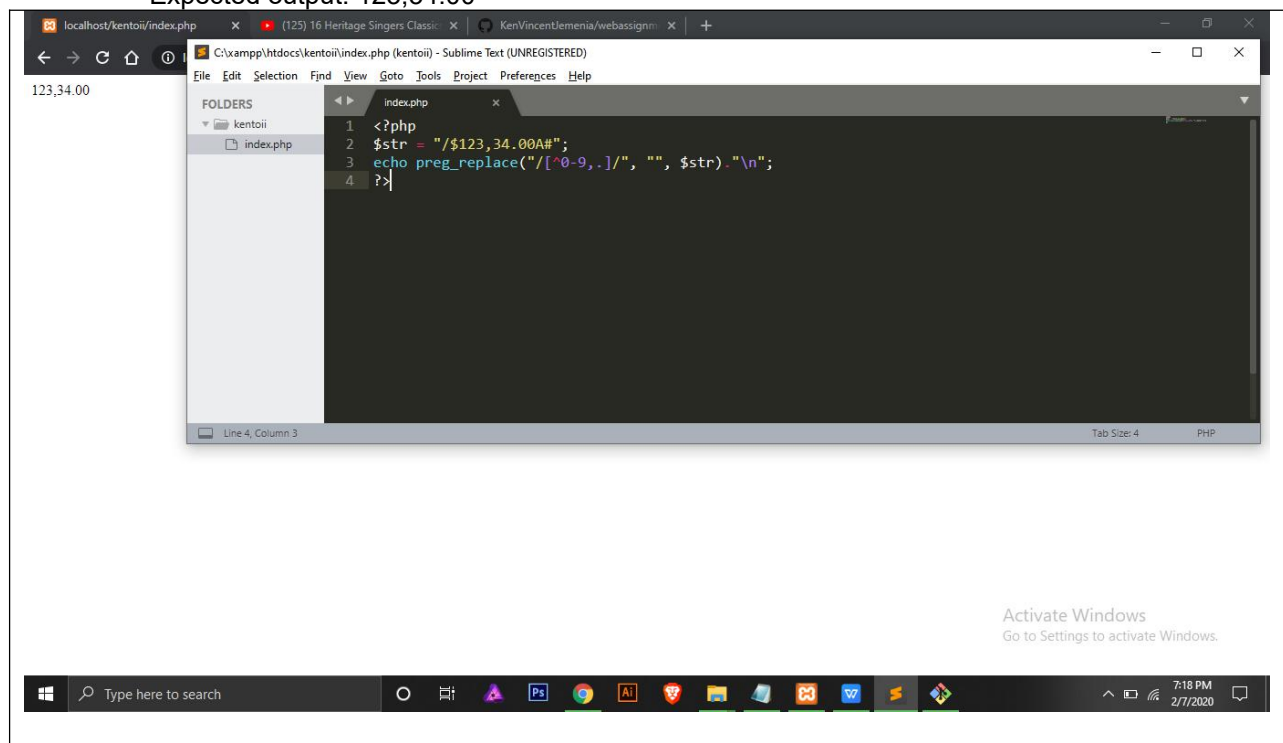
The text editor (Sublime Text) shows the following PHP code in `index.php`:

```
<?php
$string = "The quick brown fox";
echo preg_replace('/\W\w+\s*(\W*)$/','',$string)."\n";
?>
```

Below the screenshot, the PHP code is repeated:

```
<?php
$string = "The quick brown fox";
echo preg_replace('/\W\w+\s*(\W*)$/','',$string)."\n";
?>
```

- c. Write a PHP script to remove nonnumeric characters except comma and dot.
Sample String: `/$123,34.00A#`
Expected output: `123,34.00`



The screenshot shows a web browser window with the address bar displaying `localhost/kentoi/index.php`. The browser's address bar also shows the text "123,34.00". The main content area displays the output of the PHP script: "123,34.00".

The text editor (Sublime Text) shows the following PHP code in `index.php`:

```
<?php
$str = "/$123,34.00A#";
echo preg_replace("/[^0-9.,]/","",$str)."\n";
?>
```

Below the screenshot, the PHP code is repeated:

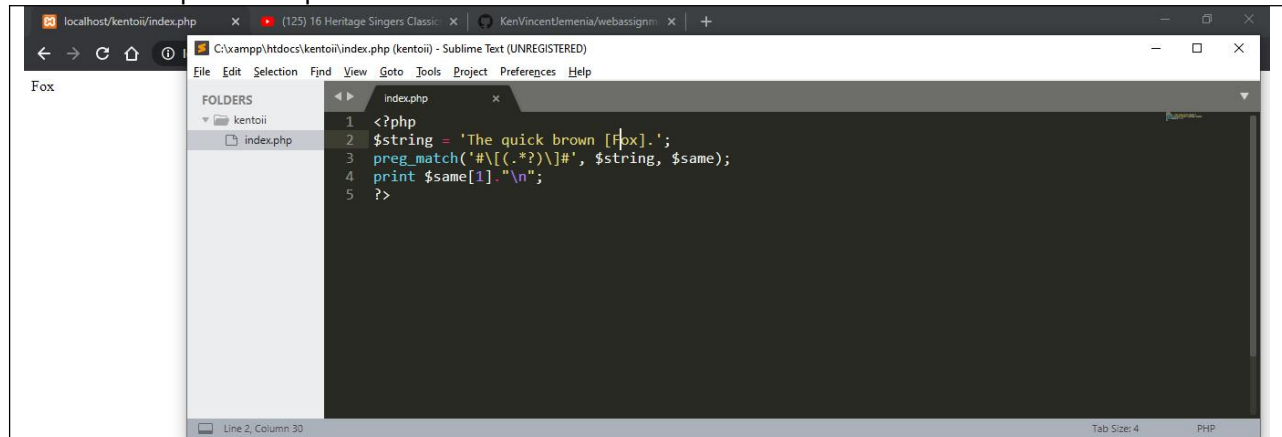
```
<?php
$str = "/$123,34.00A#";
echo preg_replace("/[^0-9.,]/","",$str)."\n";
?>
```

```
<?php
$str = "/$123,34.00A#";
echo preg_replace("/^[^0-9,.]/", "", $str)."\n";
?>
```

d. Write a PHP script to extract text (within parenthesis) from a string.

Sample String: 'The quick brown [fox].'

Expected output: Fox



The screenshot shows a web browser window with the address bar displaying 'localhost/kentoi/index.php'. The page content is 'Fox'. In the background, a Sublime Text editor window is open, showing a PHP script in a file named 'index.php'. The script is as follows:

```
1 <?php
2 $string = 'The quick brown [Fox].';
3 preg_match('#\[([.*?])\]', $string, $same);
4 print $same[1]."\n";
5 ?>
```

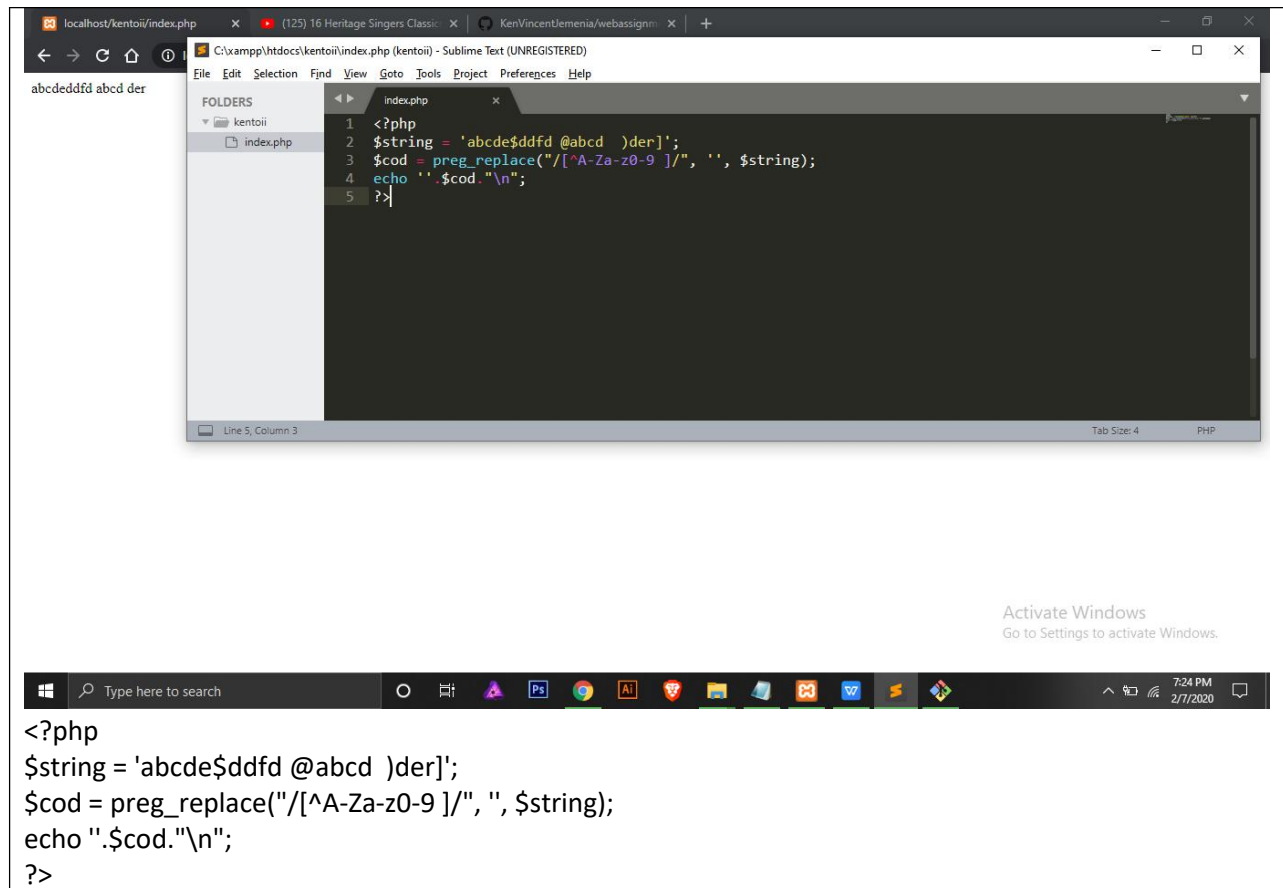
Below the screenshot, the PHP code is repeated:

```
<?php
$string = 'The quick brown [Fox].';
preg_match('#\[([.*?])\]', $string, $same);
print $same[1]."\n";
?>
```

e. Write a PHP script to remove all characters from a string except a-z A-Z 0-9 or " ".

Sample String: 'abcde\$ddfd @abcd)derj'

Expected output: abcdeddfdf abcd der



Activity 4: Error Handling

1. List down the different PHP errors. Provide example code on how to handle these errors.