ACTIVITY ANSWER SHEET

Name	Christian P. Daohog
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.

```
if (condition) {
                    do something if condition is true;
1. if
                if (condition) {
                    do something if condition is true;
                } else {
2. if...else
                    do something if condition is false;
                if (condition) {
                    do something if this condition is true;
                } elseif (condition) {
                    do something if first condition is false and this condition
3. if...else
                is true;
if...else
                 else {
                    do something if all conditions are false;
                switch (n) {
                    case label1:
                        code to be executed if n=label1;
                        break;
4. switch...case
                    case label2:
                        code to be executed if n=label2;
                        break;
                    case label3:
```

```
code to be executed if n=label3;
                        break;
                    default:
                        code to be executed if n is different from all labels;
                for (init counter; test counter; increment counter) {
                    code to be executed for each iteration;
5. for loop
                do {
                    code to be executed;
6. do while loop
                } while (condition is true);
                while (condition is true) {
                    code to be executed;
7. while loop
                foreach ($array as $value) {
                  code to be executed;
8. foreach loop
                break;
9. break
statement
                continue;
10. continue
statement
                // code before the try-catch block
                try {
11. try...catch
                  // code
                  // if something is not as expected
                      // throw exception using the "throw" keyword
```

```
// code, it won't be executed if the above exception is thrown
} catch (Exception $e) {
   // exception is raised and it'll be handled here
   // $e->getMessage() contains the error message
}

// code after the try-catch block, will always be executed
}
```

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

```
<?php
    $num=1;
    $letter="1";
    if(is_int($letter)) {
        echo "A Number";
    }
    else{
        echo "Not A Number";
    }
}
</pre>
```

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

```
{?php
    function integer_check ($num) {
        if ($num>=0) {
            odd_even($num, "Positive");
        }
        else {
            odd_even($num, "Negative");
        }
    }

function odd_even($num, $sign){
        if ($num%2==0){
            echo $sign." & Even <br>";
        }
        else{
            echo $sign." & Odd <br>";
        }
    }

integer_check(0);
integer_check(-1);
}>
```

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

Sample input: Anna Sample input: Bogart

Expected output: Palindrome Expected output: Not a Palindrome

```
    function palindrome ($word){
        if (strrev($word) == $word) {
            echo "Palindrome <br>";
        }
        else {
            echo "Not a Palindrome <br>";
        }
    }

palindrome(strtolower("Anna"));
palindrome(strtolower("bogart"));
?>
```

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

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

```
Sample input: 3
Sample output:
1
23
456
```

```
<form action="index.php" method="post">
Input: <input type="text" name="name"><br>
<input type="submit" style="position: absolute; left: 165px; margin-top:5px">
</form>

</php

$num = $_POST["name"];
$incre=1;
for ($initial=1; $initial<=$num; $initial++){
    for($second_initial=1; $second_initial<=$initial; $second_initial++){
        echo $incre.' ';
        $incre++;
    }
        echo "<br/>
        echo "<br/>
        }
}
```

Activity 2: PHP Built-in Functions

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

	array()	- Creates an array
	array_change_key_case()	- Changes all keys in an array to
		lowercase or uppercase
	array_chunk()	- Splits an array into chunks
		of arrays
Array	array_column()	- Returns the values from a single
	7_ (7	column in the input array
	array_combine()	- Creates an array by using the
		elements from one "keys" array
		and one "values" array
	cal_days_in_month()	- Returns the number of days in a
		month for a specified year and calendar
	cal_from_jd()	- Converts a Julian Day Count into a
		date of a specified calendar
Calendar	cal_info()	- Returns information about a specified
		calendar
	cal_to_jd()	- Converts a date in a specified
		calendar to Julian Day Count
	easter_date()	- Returns the Unix timestamp for
		midnight on Easter of a specified year
	checkdate()	- Validates a Gregorian date
Date	date_add()	- Adds days, months, years, hours,
		minutes, and seconds to a date

	<pre>date_create_from_format ()</pre>	- Returns a new DateTime object formatted according to a specified format
	date_create()	- Returns a new DateTime object
	date_date_set()	- Sets a new date
	checkdate()	- Validates a Gregorian date
	date_add()	- Adds days, months, years, hours, minutes, and seconds to a date
Directory	<pre>date_create_from_format ()</pre>	 Returns a new DateTime object formatted according to a specified format
	date_create()	- Returns a new DateTime object
	date_date_set()	- Sets a new date
	debug_backtrace()	- Generates a backtrace
	debug_print_backtrace()	- Prints a backtrace
Error	error_clear_last()	- Clears the last error
	error_get_last()	- Returns the last error that occurred
	error_log()	-Sends an error message to a log, to a file, or to a mail account
	basename()	- Returns the filename component of a path
	chgrp()	- Changes the file group
File System	chmod()	- Changes the file mode
	chown()	- Changes the file owner
	clearstatcache()	-Clears the file status cache

	filter_has_var()	- Checks whether a variable of a specified input type exist
	filter_id()	- Returns the filter ID of a specified filter name
Filter	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
	ftp_alloc()	- Allocates space for a file to be uploaded to the FTP server
	ftp_cdup()	- Changes to the parent directory on the FTP server
FTP	ftp_chdir()	- Changes the current directory on the FTP server
	ftp_chmod()	- Sets permissions on a file via FTP
	ftp_close()	- Closes an FTP connection
	libxml_clear_errors()	- Clears the libxml error buffer
	libxml_disable_entity_loa der()	- Enables the ability to load external entities
Libxml	libxml_get_errors()	- Gets the errors from the the libxml error buffer
	libxml_get_last_error()	- Gets the last error from the the libxml error buffer
	libxml_set_external_entit y_loader()	- Changes the default external entity loader

Mail	ezmlm_hash()	- Calculates the hash value needed by EZMLM
	mail()	- Allows you to send emails directly from a script
	abs()	- Returns the absolute (positive) value of a number
	acos()	- Returns the arc cosine of a number
Math	acosh()	- Returns the inverse hyperbolic cosine of a number
	asin()	- Returns the arc sine of a number
	asinh()	- Returns the inverse hyperbolic sine of a number
	connection_aborted()	- Checks whether the client has disconnected
	connection_status()	- Returns the current connection status
Misc	constant()	- Returns the value of a constant
	define()	- Defines a constant
	defined()	- Checks whether a constant exists
	affected_rows()	- Returns the number of affected rows in the previous MySQL operation
	autocommit()	- Turns on or off auto-committing database modifications
MySQLi	begin_transaction()	- Starts a transaction
	change_user()	- Changes the user of the specified database connection
	character_set_name()	- Returns the default character set for the database connection
Network	checkdnsrr()	- Checks DNS records for type
INCLWOIK		corresponding to host

	closelog()	- Closes the connection of system logger	
	dns_check_record()	- Alias of checkdnsrr()	
	dns_get_mx()	- Alias of getmxrr()	
	dns_get_record()	- Gets the DNS resource records associated with the specified hostname	
	construct()	- Creates a new SimpleXMLElement object	
	toString()	- Returns the string content of an element	
SimpleXML	addAttribute()	- Appends an attribute to the SimpleXML element	
	addChild()	- Appends a child element the SimpleXML element	
	asXML()	- Returns a well-formed XML string (XML version 1.0) from a SimpleXML object	
stream_bucket_prepend()			
	stream_context_create()		
Stream	stream_context_get_default()		
	stream_context_get_options()		
	stream_context_get_params()		
	addcslashes()	- Returns a string with backslashes in	
String		front of the specified characters	
	addslashes()	- Returns a string with backslashes in front of predefined characters	

	bin2hex()	- Converts a string of ASCII characters to
		hexadecimal values
	chop()	- Removes whitespace or other characters
		from the right end of a string
	chr()	- Returns a character from a specified ASCII value
	utf8_decode()	- Decodes an UTF-8 string to ISO-8859-1
	utf8_encode()	- Encodes an ISO-8859-1 string to UTF-8
XML Parser	xml_error_string()	- Returns an error string from the XML parser
	xml_get_current_byte_i ndex()	- Returns the current byte index from the XML parser
	<pre>xml_get_current_colum n_number()</pre>	- Returns the current column number from the XML parser
	zip_close()	- Closes a ZIP file archive
	zip_entry_close()	- Closes a ZIP directory entry
Zip	zip_entry_compressedsi ze()	- Returns the compressed file size of a ZIP directory entry
	zip_entry_compression method()	- Returns the compression method of a ZIP directory entry
	zip_entry_filesize()	- Returns the actual file size of a ZIP directory entry
	Africa	
	America	
Timezones	Antarctica	
	Arctic	
	Asia	

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

```
<form action="index.php" method="post">
Input: <input type="text" name="name"><br>
<input type="submit" style="position: relative; left: 156px; margin-top:5px">
</form>
</php

$pattern = $_POST["name"];
$text = "The quick brown fox";
if(preg_match("/$pattern/", $text)){
    echo "$pattern is found the string";
} else{
    echo "$pattern 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'

```
<?php
$my_text="The quick brown fox";
$text = preg_replace('/\W\w+\s*(\W*)$/', '$1', $my_text);
Echo $text;
?>
```

c. Write a PHP script to remove nonnumeric characters except comma and dot.

Sample String: '/\$123,34.00A#' Expected output: 123,34.00

```
<?php
$my_text='/$123,34.00A#';
$text = preg_replace('/[^0-9,.]/', '', $my_text);
echo $text;
?>
```

d. Write a PHP script to extract text (within parenthesis) from a string.
 Sample String: 'The quick brown [fox].'
 Expected output: Fox

```
<?php
$my_text = 'The quick brown [fox].';
$text = preg_match('#\[(.*?)\]#', $my_text, $match);
echo $match[1];
?>
```

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)der]' Expected output: abcdeddfd abcd der

```
<?php
$my_text = 'abcde$ddfd @abcd )der]';
$text = preg_replace("/[^A-Za-z0-9 ]/", '', $my_text);
echo $text;
?>
```

Activity 4: Error Handling

- 1. List down the different PHP errors. Provide example code on how to handle these errors.
 - A. If the file does not exist you might get an error like this:

```
Warning: fopen(mytestfile.txt) [function.fopen]: failed to open stream:

No such file or directory in C:\webfolder\test.php on line 2
```

Handling errors:

```
<?php
if(file_exists("mytestfile.txt")) {
    $file = fopen("mytestfile.txt", "r");
} else {
    die("Error: The file does not exist.");
}
</pre>
```

B. trigger_error() Function

```
Notice: Value must be 1 or below
in C:\webfolder\test.php on line 6
```

```
<?php

$test=2;

if ($test>=1) {

   trigger_error("Value must be 1 or below");
}

?>
```