## **ACTIVITY ANSWER SHEET**

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Section:	BSIT 3R1

#### Instructions:

- Push your output on your GITHUB repository.
   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.

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1. if	<pre>if (condition) {    code to be executed if condition is true; }</pre>			
2. ifelse	<pre>if (condition) {    code to be executed if condition is true; } else {    code to be executed if condition is false; }</pre>			
3. ifelse ifelse	<pre>if (condition) {    code to be executed if this condition is true; } elseif (condition) {    code to be executed if this condition is true; } else {    code to be executed if all conditions are false; }</pre>			
4. switchcase	switch (n) {     case label1:         code to be executed if n=label1;         break;     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; }			
5. for loop	<pre>for (init counter; test counter; increment counter) {   code to be executed; }</pre>			
6. do while loop	do {     code to be executed; } while (condition is true);			
7. while loop	while (condition is true) {    code to be executed; }			
8. foreach loop	foreach (\$array as \$value) {    code to be executed; }			

```
9. break statement

Continue;

10. continue statement

try {
//run your code here
}
catch (Exception $e) {
    echo $e->getMessage();
}
```

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
$t=1;

if (is_integer($t)) {
    echo "a number";
}else {
    echo "not 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.

echo "\$test\_1 is not a Palindrome";

Expected output: Palindrome

Sample input: Anna Sample input: Bogart

```
<?php
function palindrome($string)
{
  if ($string == strrev($string))
    return 1;
  else
    return 0;
}
$test_1 = 'anna';
if (palindrome($test_1)){
    echo "$test_1 is a Palindrome";
}
else {</pre>
```

Expected output: Not a Palindrome

```
}
echo "<br/>
$test_2 = 'bogart';
if (palindrome($test_2)){
    echo "$test_2 is a Palindrome";
}
else {
    echo "$test_2 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

```
<?php
function c_factorial($mynum){
    $fctl = 1;
    for ($num = 1; $num <= $mynum; $num++){
        $fctl = $fctl * $num;
    }
    return $fctl;
}

$test = 4;
$factor = c_factorial($test);
    echo "Output = $factor";
?>
```

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

# **Activity 2: PHP Built-in Functions**

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

	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.
Array	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 array_flip() Flips/Exchanges all keys with their associated values in an array array_intersect() Compare arrays, and returns the matches (compare values only)
Calendar	The calendar extension contains functions that simplifies converting between different calendar formats.  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
	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.
Date	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 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

	anandir/\ Onana a director il condi
	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 functions are used to deal with
	error handling and logging.
Error	display_startup_errors "0"
	log_errors "0"
	log_errors_max_len "1024"
	ignore_repeated_errors "0"
	ignore_repeated_source "0"
	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
File 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
	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
Filter	(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
	The FTP functions give client access to
	file servers through the File Transfer
	Protocol (FTP).
	ftp_login() Logs in to the FTP
	connection
FTP	ftp_mdtm() Returns the last modified
	time of a specified file
	ftp_mkdir() Creates a new directory on
	the FTP server
	ftp_mlsd() Returns the list of files in the
	specified directory
	ftp_nb_continue() Continues
	retrieving/sending a file (non-blocking)

	The libxml functions and constants are used together with SimpleXML, XSLT and DOM functions.
Libxml	libxml_clear_errors() Clears the libxml error buffer libxml_disable_entity_loader() Enables the ability to load external entities 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_entity_loader() Changes the default external entity loader
Mail	The mail() function allows you to send emails directly from a script.  ezmlm_hash() Calculates the hash value needed by EZMLM mail() Allows you to send emails directly
	from a script
	The math functions can handle values within the range of integer and float types.
	decbin() Converts a decimal number to a binary number
Math	dechex() Converts a decimal number to a hexadecimal number decoct() Converts a decimal number
	to an octal number deg2rad() Converts a degree value to a radian value exp() Calculates the exponent of e
	The misc. functions were only placed here because none of the other categories seemed to fit.
Misc	defined() Checks whether a constant exists
Wilso	die() Alias of exit() eval() Evaluates a string as PHP code exit() Prints a message and exits the current script get_browser() Returns the capabilities of the user's browser
	The MySQLi functions allows you to
MySQLi	errno() Returns the last error code for the most recent function call error() Returns the last error description for the most recent function call error_list() Returns a list of errors for the most recent function call fetch_all() Fetches all result rows as an associative array, a numeric array, or both fetch_array() Fetches a result row as an associative, a numeric array, or both
Network	The Network functions contains various network function and let you manipulate information sent to the

	browser by the Web server, before any
	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  SimpleXML is an extension that allows us to easily manipulate and get XML data.
SimpleXML	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()
Stream	Streams are the way of generalizing file, network, data compression, and other operations which share a common set of functions and uses.
Gudan	stream_context_get_options() stream_context_get_params() stream_context_set_default() stream_context_set_options() stream_context_set_params()
	The PHP string functions are part of the PHP core. No installation is required to use these functions.
String	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
	The XML functions lets you parse, but not validate, XML documents.
XML Parser	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

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

### **Activity 3: Regular Expression**

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

```
"Returns true if "abc" is found anywhere in string." <?php function_name("abc", $string);
```

- 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

```
<?php
$word = "Fox";
$mystring = "The quick brown Fox";

if(strpos($mystring, $word) !== false){
    echo " Fox is found the string!";
} else{
    echo "Word Not Found!";
}
?>
```

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
$string = "The quick brown fox";
echo preg_replace('\\W\w+\s*(\W*)$/', '$1', $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

```
<?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

```
<?php
$str = 'The quick brown [fox].';
preg_match('#\[(.*?)\]#', $str, $match);
print $match[1]."\n";</pre>
```

```
?>
```

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
$alphabet = 'abcde$ddfd @abcd )der]';
$run = preg_replace("/[^A-Za-z0-9 ]/", ", $alphabet);
echo 'Output : '.$run."\n";
?>
```

### **Activity 4: Error Handling**

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

```
*Parse Errors
try{
eval("echo 'toto' echo 'tata'");
}catch(ParseError $p){
  echo $p->getMessage();
*Fatal Errors
set_error_handler('myErrorHandler');
register_shutdown_function('fatalErrorShutdownHandler');
function myErrorHandler($code, $message, $file, $line) {
}
function fatalErrorShutdownHandler()
 $last_error = error_get_last();
 if ($last_error['type'] === E_ERROR) {
  // fatal error
  myErrorHandler(E ERROR, $last error['message'], $last error['file'], $last error['line']);
 }
}
```

```
*Warning Errors
set_error_handler("warning_handler", E_WARNING);
dns_get_record(...)
restore_error_handler();
function warning_handler($errno, $errstr) {
// do something
*Notice Errors
<?php
// Turn off all error reporting
error_reporting(0);
// Report simple running errors
error_reporting(E_ERROR | E_WARNING | E_PARSE);
// Reporting E_NOTICE can be good too (to report uninitialized
// variables or catch variable name misspellings ...)
error_reporting(E_ERROR | E_WARNING | E_PARSE | E_NOTICE);
// Report all errors except E NOTICE
error_reporting(E_ALL & ~E_NOTICE);
// Report all PHP errors (see changelog)
error_reporting(E_ALL);
// Report all PHP errors
error_reporting(-1);
// Same as error_reporting(E_ALL);
ini_set('error_reporting', E_ALL);
?>
```