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.

1. Write down the syntax	
	<pre>if statement - executes some code if one condition is true.</pre>
1. if	<pre>if (condition) { code to be executed if condition is true; }</pre>
	ifelse statement - executes some code if a condition is true and another code if that condition is false.
2. ifelse	<pre>if (condition) { code to be executed if condition is true; } else {</pre>
	<pre>code to be executed if condition is false; }</pre>
	<pre>ifelseifelse statement executes different codes for more than two conditions.</pre>
3. ifelse ifelse	<pre>if (condition) { code to be executed if this condition is true; } elseif (condition) { code to be executed if first condition is false.</pre>
	<pre>code to be executed if first condition is false and this condition is true; } else { code to be executed if all conditions are false;</pre>
	} switch statement is used to perform different actions
	based on different conditions.
	switch (n) {
	<pre>case label1: code to be executed if n=label1; break;</pre>
	case <i>label2</i> :
4. switchcase	<pre>code to be executed if n=label2; break;</pre>
	<pre>case label3: code to be executed if n=label3; break;</pre>
	<pre>default: code to be executed if n is different from all labels; }</pre>
	for loop is used when you know in advance how many times the script should run.
5. for loop	for (init counter; test counter; increment counter)

	ſ
	<pre>{ code to be executed for each iteration; }</pre>
	dowhile loop will always execute the block of code once, it will then check the condition, and repeat the loop while the specified condition is true.
6. do while loop	
	do {
	<pre>code to be executed; } while (condition is true);</pre>
	<pre>while loop executes a block of code as long as the specified condition is true.</pre>
7. while loop	<pre>while (condition is true) { code to be executed; }</pre>
8. foreach loop	foreach loop works only on arrays, and is used to loop through each key/value pair in an array.
·	<pre>foreach (\$array as \$value) { code to be executed; }</pre>
	switch (n)
	{
	case text1:
	code executed if n=text1;
	break;
9. break statement	case text2:
	code executed if n=text2;
	break;
	default:
	code executed if n is different from both text1 and text2;
	}
	<pre><?php Loop (While, do-while, for,) {</pre></pre>
	conditions
10. continue statement	continue;//continue statement
	code executed; } ?>

```
11. try...catch
```

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
$numz = 1;
$mchar = '1';
if (is_int($numz)) {
    echo "{$numz} is integer\n";
} else {
    echo "{$numz} is not an integer";
}
echo "<br/>if (is_int($mchar)) {
    echo "{$mchar} is integer\n";
} else {
    echo "{$mchar} is not an integer <br/>;
}
```

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

Sample input: 0 Sample input: -1

```
<?php
$numz = -24;
if (\sum >= 0)
        if (\sum \% -24 == 0)
        echo "{$numz} is Positive and Even";
    echo "<br>";
  }
  else{
       echo "{$numz} is Positive and Odd";
    echo "<br>";
  }
}
else{
        if (\sum \% -24 == 0)
        echo "{$numz} is Negative and Even";
    echo "<br>";
  }
  else{
       echo "{$numz} is Negative and Odd";
    echo "<br>";
  }
}
?>
```

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

```
<?php
function palindrome($string)
{
  if ($string == strrev($string))
    return 1;
  else
    return 0;</pre>
```

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($numz){
    $fact = 1;
    for ($num = 1; $num <= $numz; $num++){
        $fact = $fact * $num;
    }
    return $fact;
}

$test1 = 4;
$factor = c_factorial($test1);
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
```

```
<?php
$numz= 3;
$Mcount = 1;
for ($next1 = $numz; $next1 > 0; $next1--)
{
   for ($next2 = $next1; $next2 < $numz + 1; $next2++)
      {
        printf("%4s", $Mcount);
        $Mcount++;
      }
        echo "{<br/>}";
   }
   ?>
```

Activity 2: PHP Built-in Functions

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

Array	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_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
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
Date	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. 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 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 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.
	Sources, fixe aser input.
	filter_id() Returns the filter ID of a
	specified filter name
	filter_input() Gets an external variable
Filtor	(e.g. from form input) and optionally filters
Filter	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).
	ftn login() Logo in to the ETD
	ftp_login() Logs in to the FTP
ETD	connection ftn mdtm() Poturns the last modified
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
Math	The math functions can handle values within the range of integer and float types.
	The misc. functions were only placed here because none of the other categories seemed to fit.
Misc	defined() Checks whether a constant exists 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
MySQLi	The MySQLi functions allows you to access MySQL database servers. 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 other output has been sent. 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 comics and
	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.
	uata.
	getDocNamespaces() Returns the
	namespaces declared in document
SimpleXML	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()
	Streams are the way of generalizing
	file, network, data compression, and
	other operations which share a common set of functions and uses.
Stream	common sec of functions and ases.
Culcum	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.
	00/0 Octobro 10 10 10 10 10 10 10 10 10 10 10 10 10
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.
	randaco, mie dodamono
	xml_get_current_column_number()
	Returns the current column number
VMI Davier	from the XML parser xml_get_current_line_number()Returns
XML Parser	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.
Zip	zip_entry_name() Returns the name of a
	ZIP directory entry
	zip_entry_open() Opens a directory
	entry in a ZIP file for reading

	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
	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.
- 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
$string = "The quick brown fox";
$testing = "/Fox/i";
if (preg_match($testing, $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'

```
<?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";
?>
```

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

Activity 4: Error Handling

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