ACTIVITY ANSWER SHEET

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Section:	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	1. Write down the syntax in PHP for the ff.				
1. if	<pre><?php If(condition){ //codes run here; } ?></pre>				
2. ifelse	<pre><?php If(condition){ //codes run here; }else{ //codes run here; } ?></pre>				
3. ifelse ifelse	<pre><?php If(condition){ //codes run here; }else if(condition){ //codes run here; }else{ //codes run here; } ?></pre>				
4. switchcase	<pre><?php Switch(expression){ Case label1: //code to be run if expression = label1; break; Case label2: //code to be run if expression = label1; break; Default: //code to be run if expression is diff from all label; } ?></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 (\$array as \$value) { code to be executed; }</pre></pre>				

```
?>
                           <?php
                            break;
9. break statement
                           ?>
                           <?php
                            continue;
10. continue statement
                           ?>
                           <?php
                           try {
                             //if the exception is not true codes will run here;
11. try...catch
                           //catch exception
                           catch(Exception $e) {
                             //if exception is catch codes runs here;
                           }
?>
```

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

```
$\text{species output. **Number*}

$\text{value} = 1;

if(is_integer($value)){
        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

```
echo "{$value} is positive and odd";
}
}else if ($value < 0){
    if($value%2 == 0){
        echo "{$value} is Negative and even";
    }else{
        echo "{$value} is Negative and odd";
    }
}</pre>
```

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

$text = Anna;

if(strrev($text) == $text){
    echo "{$text} is a PALINDROME";
}else{
    echo "{$text} 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
```

```
$value = 4;
    $inc = 1;
    $factorial = 1;
    for($inc = 1;$inc <= $value;$inc++){
        $factorial *= $inc;
    }
    echo "The factorial of {$value} is {$factorial}";</pre>
```

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
```

```
$count++;
}
echo "<br>";
}
?>
```

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

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 formatted according to a specified format date_create() Returns a new DateTime object date_date_set() Sets a new date
	The directory functions allow you to retrieve information about directories and their contents.
Directory	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"
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
	This PHP filters is used to validate and filter data coming from insecure sources, like user input.
Filter	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() Cate external
	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 legin() Lege in to the ETD
	ftp_login() Logs in to the FTP connection
FTP	ftp mdtm() Returns the last modified
FIF	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.
	and DOM functions.
	libxml clear errors() Clears the
	libxml error buffer
	libxml_disable_entity_loader() Enables
Libxml	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
	The mail() function allows you to send
	emails directly from a script.
Mail	
IVIAII	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.
	7
	decbin() Converts a decimal number
Math	to a binary number
Ivialii	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
Misc	categories seemed to fit.
	defined() Checks whether a constant
	exists

	dia() Alice of cyit()
	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 access MySQL database servers.
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
	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.
Network	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()
	Streams are the way of generalizing file, network, data compression, and other operations which share a common set of functions and uses.
Stream	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
Zip	The Zip files functions allows you to read ZIP files. 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
Timezones	PHP Date/Time Functions PHP gmdate() Function 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
    $givenStatement = "The quick brown fox";
    $testWord = "/Fox/";
    if (preg_match($testWord, $givenStatement)){
        echo "Fox is found in the string";
    }else{
        echo "Fox is not found in the string";
    }
}
</pre>
```

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

$givenStatement = "The quick brown fox";
$wordToBeRemove = "/fox/";
echo preg_replace($wordToBeRemove, '', $givenStatement);
?>
```

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

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

```
    $givenStatement = "'/$123,34.00A#'";
    $wordToBeRemove = "/[^a-z0-9,.]/";
    echo preg_replace($wordToBeRemove, '', $givenStatement);

?>
```

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

Sample String: 'The quick brown [fox].' Expected output: Fox

```
$\text{sphp}

$\text{givenStatement} = "The quick brown (fox).";

preg_match('#\((.*?)\)#', $\text{givenStatement}, $\text{match});

print $\text{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

```
    $givenStatement = 'abcde$ddfd @abcd )der]';
    $newstatement = preg_replace("/[^A-Za-z0-9 ]/", '', $givenStatement);
    echo 'New string : '.$newstatement."<br>";
?>
```

Activity 4: Error Handling

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

```
Parse Errors
```

Fatal Errors

```
function shutDownFunction() {
    $error = error_get_last();
    // fatal error, E_ERROR === 1
    if ($error['type'] === E_ERROR) {
        //do your stuff
    }
}
register_shutdown_function('shutDownFunction');
```

Warning Errors

```
set_error_handler("warning_handler", E_WARNING);
dns_get_record(...)
restore_error_handler();
```

```
function warning_handler($errno, $errstr) {
// do something
```

Notice Errors

```
// 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);
```