## **IACTIVITY ANSWER SHEET**

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Section:	BS-IT-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.

Reference: PHP Programming with MySQL, Don Gosselin 2006, USTP-CDO MAIN LIB

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1. if	If (conditional expression) statement			
2. ifelse	If (conditional expression) statement; else statement;			
3. ifelse ifelse	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;     }			
4. switchcase	switch (expression){			
5. for loop	for (counter declaration and initialization; condition; update statement) {			
6. do while loop	do { statement(s); }while (conditional expression);			
7. while loop	while (conditional expression){     Statement(s);     }			
8. foreach loop	foreach (\$array_name as \$variable_name){     statements; }			
9. break statement	\$array = array(values); foreach( \$array as \$value ){ if( \$value == 3 ) break;			

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
$p='1';
if (is_integer($p)){
   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

```
<?php
$p='0';
if ($p < 0){
    if ($p%2 == 0){
        echo "Negative and Even";
    }else {
        echo "Negative and Odd";
}
    } else {
    if ($p%2 == 0){
        echo "Positive and Even";
    }else
        echo "Positive and Odd";
}
?>
```

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
palindrome("dad");

function palindrome($drome) {
    $drome_len = strlen($drome) - 1;
    $result = ";

    for ($y = $drome_len; $y>=0; $y--) {
        $result .= $drome[$y];

    }
    if ($result ==$drome){
        echo "Palindrome";
    }else {
        echo "Not 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
$f=5;
$c=1;
for ($a=1; $a<=$f;$a++)
{
    $c=$c*$a;
}
echo "Factorial =".$c;
?>
```

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
$f=5;
$l=1;
$o=0;
$y=0;
for ($y=$f;$y>0;$y--) {
    for ($o=$y;$o<$f;$o++){
        printf("%4o",$I);
        $I++;
    }
    echo nl2br("\n");
}</pre>
```

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

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

	array_change_key_cases
	changes all keys in an array to uppercase
	array_chunk
	splits an array into chuncks
	array_column
Array	retrieves the values from single column in
7 thay	an array
	array_combine
	merges the keys from one array and the
	values from another into a new array
	array_count_values
	counts all values in an 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
	cal_info()
Calendar	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()
	Checks the validity of a Gregorian date
	date_add()
	Adds a number of days, months, years,
	hours, minutes and seconds to a
Date	date object
Balo	date_create_from_format()
	Returns a formatted DateTime object
	date_create()
	Creates a new DateTime object
	date_date_set()
	Sets a new date
	chdir()
	Changes the current directory
	chroot()
	Changes the root directory
Directory	closedir()
	Closes a directory handle
	dir()
	Returns an instance of the Directory class
	getcwd()
	Returns the current working directory
	debug_backtrace()
	Used to generate a backtrace
	debug_print_backtrace()
	Prints a backtrace
_	error_get_last()  Gots the last error that accurred
Error	Gets the last error that occurred
	error_log()
	Sends an error message to the web
	server's log, a file or a mail
	account
	error_reporting()
	Specifies which PHP errors are reported

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	basename()
	Returns the filename component of a path
	chgrp()
	Changes the file group
File System	chmod()
5,5	Changes the file mode
	chown()
	Changes the file owner
	clearstatcache()
	Clears the file status cache
	filter_has_var()
	· · · · · · · · · · · · · · · · · · ·
	Checks if a variable of the specified type
	exists 25 of 38
	filter_id()
	Returns the ID belonging to a named filter
Filter	filter_input()
Filler	Retrieves a specified external variable by
	name and optionally filters it
	filter_input_array()
	Pulls external variables and optionally
	filters them
	filter_list()
	Returns a list of all supported filters
	ftp_alloc()
	Allocates space for a file to be uploaded to
	the FTP server
	ftp_cdup()
	Changes to the parent directory on the
FTP	FTP server
	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_loader()
	Enables the ability to load external entities
	libxml_get_errors()
	Gets the errors from the the libxml error
Libxml	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
	to
	The recipient's email address.
	subject
	The email's subject line.
	message
Mail	The actual email body where you can
	insert main messages.
	headers
	Additional parameters such as "From",
	"Cc", "Bcc" etc.
	Parameters
	Optional parameters.

	abs() Returns the absolute (positive) value of a number acos() Returns the arc cosine of a number acosh()
Math	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	connection_timeout() Deprecated from PHP 4.0.5. Checks whether the script has timed out
	constant() Returns the value of a constant define()
	Defines a constant
	mysqli_affected_rows()
	The number of affected rows in the
	previous MySQL operation
	mysqli_autocommit()
	Turn auto-committing database modifications on or off
MySQLi	mysqli_change_user()
Wyodei	Changes the user of the specified
	database connection
	mysqli_character_set_name()
	The default character set for the database connection
	mysqli_close()
	Closes an open database connection
	checkdnsrr()
	Checks DNS records for type
	corresponding to host closelog()
	Closes the connection of system logger
Natural	define_syslog_variables()
Network	Deprecated and removed in PHP 5.4.
	Initializes the variables used in syslog functions
	dns_check_record()
	Alias of checkdnsrr()
	dns_get_mx()
	Alias of getmxrr()
	SimpleXMLElement::addAttribute Adds an attribute to the SimpleXML element
	SimpleXMLElement::addChild
SimpleXML	Adds a child element to the XML node
	SimpleXMLElement::asXML
	Return a well-formed XML string based on SimpleXML element
	SimpleXMLElement::attributes
	Identifies an element's attributes

	SimpleXMLElement::children Finds children of given node
Stream	set_socket_blocking Alias of stream_set_blocking stream_bucket_append Append bucket to brigade stream_bucket_make_writeable Return a bucket object from the brigade for operating on stream_bucket_new Create a new bucket for use on the current stream stream_bucket_prepend Prepend bucket to brigade
String	addcslashes() Returns a string with backslashes in front of specified characters addslashes() Returns a string with backslashes in front of characters that need to be escaped bin2hex() Converts a string of ASCII characters to hexadecimal values chop() Removes space or other characters from the right end of a string chr() Returns a character from a specified ASCII value
XML Parser	utf8_decode Converts a string with ISO-8859-1 characters encoded with UTF-8 to single- byte ISO-8859-1 utf8_encode Encodes an ISO-8859-1 string to UTF-8 xml_error_string Get XML parser error string xml_get_current_byte_index Get current byte index for an XML parser xml_get_current_column_number Get current column number for an XML parser
Zip	ZipArchive::addEmptyDir Add a new directory ZipArchive::addFile Adds a file to a ZIP archive from the given path ZipArchive::addFromString Add a file to a ZIP archive using its contents ZipArchive::addGlob Add files from a directory by glob pattern ZipArchive::addPattern Add files from a directory by PCRE pattern
Timezones	date_default_timezone_get() Returns the default timezone used by all functions date_default_timezone_set() Sets the default timezone Strtoftime()

Short of time
Gmdate()
gm date "

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

- 1. Define Regular Expression (RegEx) and provide example programming scenario where you can use (RegEx). Provide example syntax in PHP.
  - -Regular expressions are nothing more than a sequence or pattern of characters itself. They provide the foundation for pattern-matching functionality. Using regular expression you can search a particular string inside a another string, you can replace one string by another string and you can split a string into many chunks.
    - -When checking that an email address entered into a form.

```
-<?php
function_name('/pattern/',subject);
?>
```

- 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
$alphabet = 'abcde$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);
?>
```