ACTIVITY ANSWER SHEET

Name	Trezia Mae Gacus
Section:	R2

Instructions:

- 1. Push your output on your GITHUBrepository.
- 2. Use the answer sheet provided saveit 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) {
1. if
                          code to be executed if condition is true;
                      if (condition) {
                          code to be executed if condition is true;
2. if...else
                      } else {
                          code to be executed if condition is false;
                      if (condition) {
                          code to be executed if this condition is true;
                      } elseif (condition) {
3. if...else if...else
                          code to be executed if first condition is false
                      and this condition is true;
                      } else {
                          code to be executed if all conditions are false;
                      switch (n) {
                          case label1:
                              code to be executed if n=label1;
                              break;
                          case label2:
                              code to be executed if n=label2;
                              break;
4. switch...case
                          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)
5. for loop
                      {
                          code to be executed for each iteration;
                     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 $value) {
                            code to be executed;
8. foreach loop
                         }
                         jump statement;
9. break statement
                         break;
                         jump-statement;
10. continue statement
                         continue;
                         <?php
                         function checkNum($number) {
                           if($number>1) {
                            throw new Exception("Value must be 1 or below");
                          return true;
                         //trigger exception in a "try" block
11. try...catch
                          checkNum(2);
                          echo 'If you see this, the number is 1 or below';
                         catch(Exception $e) {
                          echo 'Message: ' .$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

Expected output: Not a number Expected output: A number

```
<?php
if ( (int) '1' !== 1 ) {
    echo 'not a number';
} else {
    echo '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

```
<?php
function check($number){
  if(\$number \% 2 == 0){
     echo "Even ";
  else{
     echo "Odd ";
  }
function trezia($number){
  if(\text{number} >= 0)
     echo "& Positive<br>";
  else{
     echo "& Negative<br>";
  }
number = 0;
check($number);
trezia($number);
number = -1;
check($number);
trezia($number)
```

a Wirita a program that also also if a value is noticed to ma

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($number){
  $anna = $number;
  bogart = 0;
  while (floor($anna)) {
     $d = $anna % 10;
     bogart = bogart* 10 + d;
     $anna = $anna/10;
  if ($bogart== $number){
     return 1;
  else{
    return 0;
$original = 1441;
if (Palindrome($original)){
  echo "Palindrome";
else {
echo "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
$n = 4;
$x = 1;
for($i=1;$i<=$n-1;$i++)
{
    $x*=($i+1);
}
echo "The factorial of $n = $x"."\n";
?>
```

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.

	array()
	array_change_key_case()
	array_chunk()
	array_column()
	array_combine()
	array_count_values()
	array_diff()
	array_diff_assoc()
	array_diff_key()
	array_diff_uassoc()
	array_diff_ukey()
	array_fill()
	array_fill_keys()
	array_filter()
	array_flip()
	array_intersect()
	array_intersect_assoc()
	array_intersect_assoc() array_intersect_key()
	array_intersect_key() array_intersect_uassoc()
	array_intersect_uassoc() array_intersect_ukey()
	array_key_exists() array_keys()
	array_map()
	array_merge()
	array_merge_recursive()
	array_multisort()
	array_pad()
Amari	array_pop()
Array	array_product()
	array_push()
	array_rand()
	array_reduce()
	array_replace()
	array_replace_recursive()
	array_reverse()
	array_search()
	array_shift()
	array_slice()
	array_splice()
	array_sum()
	array_udiff()
	array_udiff_assoc()
	array_udiff_uassoc()
	array_uintersect()
	array_uintersect_assoc()
	array_uintersect_uassoc()
	array_unique()
	array_unshift()
	array_values()
	array_walk()
	array_walk_recursive()
	arsort()
	asort()
	compact()
	count()
	current()
	each()

	1.0	
	end()	
	extract()	
	extract()	
	in_array()	
	key()	
	krsort()	
	ksort()	
	list()	
	natcasesort()	
	natsort()	
	next()	
	pos()	
	prev()	
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	range()	
	reset()	
	rsort()	
	shuffle()	
	sizeof()	
	sort()	
	uasort()	
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	cal_from_jd()	
	cal_info()	
	cal_to_jd()	
	easter_date()	
	easter_days()	
	frenchtojd()	
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	jddayofweek()	
	jdmonthname()	
	jdtofrench()	
	jdtogregorian()	
	jdtojewish()	
	jdtojulian()	
	jdtounix()	
	jewishtojd()	
	juliantojd()	
	unixtojd()	
	checkdate()	
	date_add()	
	date_create_from_format()	
	date_create()	
	date_date_set()	
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	date_default_timezone_get()	
	date_default_timezone_set()	
	date_diff()	
	date_format()	
Date	date_get_last_errors()	
	date_interval_create_from_date_string()	
	date_interval_format()	
	date_isodate_set()	
	date_modify()	
	date_offset_get()	
	date_parse_from_format()	
	date_parse()	
	date_sub()	
	date_sun_info()	
	date_sunrise()	
	date_sunset()	

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error_log()
Error error_reporting()
restore_error_handler()
restore_exception_handler()
set_error_handler()
set_exception_handler()
trigger_error()
user_error()
basename()
chgrp()
chmod()
chown()
clearstatcache()
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copy() File System
delete()
dirname()
disk_free_space()
disk_total_space()
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diskfreespace()
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fflush()
fgetc()
fgetcsv()
fgets()
fgetss()
file()
file_exists()
file_get_contents()
file_put_contents()
fileatime()
filectime()
filegroup()
fileinode()
filemtime()
fileowner()
fileperms()
filesize()
filetype()
flock()
fnmatch()
fopen()
fpassthru()
fputcsv()
fputs()
fread()
fscanf()
fseek()
fstat()
ftell()
ftruncate()
fwrite()
glob()
is_dir()
is_executable()
is_file()
is_link()
is_readable()
is_uploaded_file()
is_writable()
is_writeable()
Ichgrp()
Ichown()
link()
linkinfo()
Istat()
mkdir()
move_uploaded_file()
parse_ini_file()
parse_ini_string()
pathinfo()
pclose()
popen()
readfile()
readlink()
realpath()
realpath_cache_get()
realpath_cache_size()
rename()
rewind()
rmdir()
set_file_buffer()
stat()
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	P . I O
	symlink()
	tempnam()
	tmpfile()
	touch()
	umask()
	unlink()
	filter_has_var()
	filter_id()
	filter_input()
Filter	filter_input_array()
	filter_list()
	filter_var()
	filter_var()
	ftp_alloc()
	ftp_cdup()
	ftp_chdir()
	ftp_chmod()
	ftp_close()
	ftp_connect()
	ftp_delete()
	ftp_exec()
	ftp_fget()
	ftp_fput()
	ftp_get()
	ftp_get_option()
	ftp_login()
	ftp_mdtm()
	ftp_mkdir()
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	ftp_mlsd()
FTP	ftp_nb_continue()
	ftp_nb_fget()
	ftp_nb_fput()
	ftp_nb_get()
	ftp_nb_put()
	ftp_nlist()
	ftp_pasv()
	ftp_put()
	ftp_pwd()
	ftp_quit()
	ftp_raw()
	ftp_rawlist()
	ftp_rename()
	ftp_rmdir()
	ftp_set_option()
	ftp_site()
	ftp_size()
	ftp_ssl_connect()
	ftp_systype()
	libxml_clear_errors()
	libxml_disable_entity_loader()
	libxml_get_errors()
Libxml	libxml_get_last_error()
	libxml_set_external_entity_loader()
	libxml_set_streams_context()
	libxml_use_internal_errors()
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Mail	ezmlm_hash()
	mail()
	abs()
Moth	acos()
Math	acosh()
	V
1	asin()

	asinh()
	atan()
	atan2()
	atanh()
	base_convert()
	bindec()
	ceil()
	cos()
	cosh()
	decbin()
	dechex()
	decoct()
	deg2rad()
	exp()
	expm1()
	floor()
	fmod()
	getrandmax()
	hexdec()
	hypot()
	intdiv()
	is_finite()
	is_infinite()
	is_nan()
	lcg_value()
	log()
	log10()
	log1p()
	max()
	min()
	mt_getrandmax()
	mt_rand()
	mt_srand()
	octdec()
	pi()
	pow()
	rad2deg()
	rand()
	round()
	sin()
	sinh()
	sqrt()
	srand()
	tan()
	tanh()
	connection_aborted()
	connection_status()
	connection_timeout()
	constant()
	define()
	defined()
	die()
	eval()
Misc	exit()
	get_browser()
	halt_compiler()
	highlight_file()
	highlight_string()
	hrtime()
	ignore_user_abort()
	pack()
	php_strip_whitespace()
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	show_source()
	sleep()
	sys_getloadavg()
	time_nanosleep()
	time_sleep_until()
	uniqid()
	unpack()
	usleep()
	affected_rows()
	autocommit()
	begin_transaction()
	change_user()
	character_set_name()
	close()
	commit()
	· ·
	connect()
	connect_errno()
	connect_error()
	data_seek()
	debug()
	dump_debug_info()
	errno()
	error()
	error_list()
	fetch_all()
	fetch_array()
	fetch_assoc()
	fetch_field()
	fetch_field_direct()
	fetch_fields()
	fetch_lengths()
	fetch_object()
	fetch_row()
	field_count()
MySQLi	field_seek()
	get_charset()
	get_client_info()
	get_client_stats()
	get_client_version()
	get_connection_stats()
	get_host_info()
	get_proto_info()
	get_server_info()
	get_server_version()
	info()
	init()
	insert_id()
	kill()
	more_results()
	multi_query()
	next_result()
	options()
	ping()
	poll()
	prepare()
	query()
	real_connect()
	· ·
	real_escape_string()
	real_query()
	reap_async_query()
	refresh()
	rollback()

	select_db()	
	set_charset()	
	set_local_infile_default()	
	set_local_infile_handler()	
	sqlstate()	
	ssl_set()	
	stat()	
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	stmt_init()	
	store_result()	
	thread_id()	
	thread_safe()	
	use_result()	
	warning_count()	
	checkdnsrr()	
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	closelog()	
	define_syslog_variables()	
	dns_check_record()	
	dns_get_mx()	
	dns_get_record()	
	fsockopen()	
	gethostbyaddr()	
	gethostbyname()	
	gethostbynamel()	
	gethostname()	
	getmxrr()	
	getprotobyname()	
	getprotobynumber()	
	getservbyname()	
	getservbyport()	
Network	header_register_callback()	
	header_remove()	
	header()	
	headers_list()	
	headers_sent()	
	http_response_code()	
	inet_ntop()	
	inet_pton()	
	ip2long()	
	long2ip()	
	openlog()	
	pfsockopen()	
	setcookie()	
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	setrawcookie()	
	socket_get_status()	
	socket_set_blocking()	
	socket_set_timeout()	
	syslog()	
	_construct()	
	_toString()	
	addAttribute()	
	· · · · · · · · · · · · · · · · · · ·	
	addChild()	
	asXML()	
	attributes()	
0: 1.74#	children()	
SimpleXML	count()	
	getDocNamespaces()	
	getName()	
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	getNamespaces()	
	registerXPathNamespace()	
	saveXML()	
1	laimployml import dom()	
	simplexml_import_dom()	
	simplexml_load_file()	

	simplexml_load_string()	
	xpath()	
	current()	
	getChildren() hasChildren()	
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	stream_copy_to_stream()	
	stream_filter_append()	
	stream_filter_prepend()	
	stream_filter_register() stream_filter_remove()	
	stream_get_contents()	
	stream_get_filters()	
	stream_get_line()	
	stream_get_meta_data()	
	stream_get_transports()	
	stream_get_wrappers()	
Olar sur	stream_is_local() stream_isatty()	
Stream	stream_notification_callback()	
	stream_register_wrapper()	
	stream_resolve_include_path()	
	stream_select()	
	stream_set_blocking()	
	stream_set_chunk_size()	
	stream_set_read_buffer() stream_set_timeout()	
	stream_set_write_buffer()	
	stream_socket_accept()	
	stream_socket_client()	
	stream_socket_enable_crypto()	
	stream_socket_get_name()	
	stream_socket_pair()	
	stream_socket_recvfrom() stream_socket_sendto()	
	stream_socket_server()	
	stream_socket_shutdown()	
	stream_supports_lock()	
	stream_wrapper_register()	
	stream_wrapper_restore()	
	stream_wrapper_unregister()	
	addcslashes() addslashes()	
	bin2hex()	
	chop()	
String	chr()	
	chunk_split()	
	convert_cyr_string()	
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```
count_chars()
crc32()
crypt()
echo()
explode()
fprintf()
get_html_translation_table()
hebrev()
hebrevc()
hex2bin()
html_entity_decode()
htmlentities()
htmlspecialchars_decode()
htmlspecialchars()
implode()
join()
Icfirst()
levenshtein()
localeconv()
Itrim()
md5()
md5_file()
metaphone()
money_format()
nl_langinfo()
nl2br() Inserts
number_format()
ord()
parse_str()
print()
printf()
quoted_printable_decode()
quoted_printable_encode()
quotemeta()
rtrim()
setlocale()
sha1()
sha1_file()
similar_text()
soundex()
sprintf()
sscanf()
str_getcsv()
str_ireplace()
str_pad()
str_repeat()
str_replace()
str_rot13()
str shuffle()
str_split()
str_word_count()
strcasecmp()
strchr()
strcmp()
strcoll()
strcspn()
strip_tags()
stripcslashes()
stripslashes()
stripos()
stristr()
strlen()
```

	strnatcasecmp()	
	strnatcmp()	
	strncasecmp()	
	strncmp()	
	strpbrk()	
	strpos()	
	strrchr()	
	strrev()	
	strripos()	
	strrpos()	
	strspn()	
	strstr()	
	strtok()	
	strtolower()	
	strtoupper()	
	strtr()	
	substr()	
	substr_compare()	
	substr_count()	
	substr_replace()	
	trim()	
	ucfirst()	
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	ucwords()	
	vfprintf()	
	vprintf()	
	vsprintf()	
	wordwrap()	
	utf8_decode()	
	utf8_encode()	
	xml_error_string()	
	xml_get_current_byte_index()	
	xml_get_current_line_number()	
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	xml_parse()	
	xml_parse_into_struct()	
	xml_parser_create_ns()	
XML Parser	xml_parser_create()	
ANIE I GIOCI	xml_parser_free()	
	xml_parser_get_option()	
	xml_parser_set_option()	
	xml_set_character_data_handler()	
	xml_set_default_handler()	
	xml_set_element_handler()	
	xml_set_external_entity_ref_handler()	
	xml_set_notation_decl_handler()	
	xml_set_object()	
	xml_set_processing_instruction_handler()	
	xml_set_start_namespace_decl_handler()	
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	zip_close()	
	zip_entry_close()	
	zip_entry_compressedsize()	
	zip_entry_compressionmethod()	
Zip	zip_entry_filesize()	
	zip_entry_name()	
	zip_entry_open()	
	zip_entry_read()	
	zip_open()	
	zip_read()	
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	DateTimeZone::construct
	DateTimeZone::getLocation
	DateTimeZone::getName
Timezones	DateTimeZone::getOffset
	DateTimeZone::getTransitions
	DateTimeZone::listAbbreviations
	DateTimeZone::listIdentifiers

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 powerful pattern matching algorithm that can be performed in a single expression. Regular expressions use arithmetic operators such as (+,-,^) to create complex expressions. RSSegular expressions help you accomplish tasks such as validating email addresses, IP address etc.

```
<?php
$pattern = "/ca[kf]e/";
$text = "He was eating cake in the cafe.";
if(preg_match($pattern, $text)){
   echo "Match found!";
} else{
   echo "Match not found.";
}
?>
```

- 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
$pattern = '/[^\w]fox\s/';
if (preg_match($pattern, 'The quick brown fox'))
{
   echo "Fox doesn't found the string"."\n";
   }
   else
   echo "Fox is found the string"."\n";
?>
```

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
$moon = 'The quick brown fox';
echo preg_replace('/\W\w+\s*(\W*)$/', '$1', $str1)."\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
$star = "$12,334.00A#";
echo preg_replace("/[^0-9,.]/", "", $star)."\n";
?>
```

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

```
<?php
$moon = 'The quick brown [Fox].';
preg_match('#\[(.*?)\]#', $moon, $star);
print $star[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:abcdeddfdabcd der

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

```
Activity 4: Error Handling
1. List down the different PHP errors. Provide example code on how to handle these errors.
different PHP errors:
E ERROR
E_WARNING
E NOTICE
E USER ERROR
E USER WARNING
E USER NOTICE
E_STRICT
E ALL
example code on how to handle these errors
<?php
//error handler function
function customError($errno, $errstr) {
 echo "<b>Error:</b> [$errno] $errstr<br>";
 echo "Ending Script";
 die();
//set error handler
set_error_handler("customError",E_USER_WARNING);
//trigger error
test=2;
if ($test>=1) {
 trigger_error("Value must be 1 or below", E_USER_WARNING);
?>
```