ACTIVITY ANSWER SHEET

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Section:	BSIT 3R2

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 in PHP for the ff.			
1. if	<pre>if (condition) { code to be executed if condition is true; }</pre>		
2. ifelse	if (condition) { code to be executed if condition is true; } else { code to be executed if condition is false; }		
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 and this condition is true; } else { code to be executed if all conditions are false; }</pre>		
4. switchcase	switch (expression) { case constant1: execute the statement; break; case constant2: execute the statement; break; case constant3: execute the statement; break; check: check constant3: execute the statement; break; check che		
5. for loop	for (init counter; test counter; increment counter) { code to be executed for each iteration; }		
6. do while loop	do { code to be executed; } while (condition is true);		
7. while loop	<pre>while (condition is true) { code to be executed; }</pre>		
8. foreach loop	foreach (\$array as \$value) { code to be executed; }		
9. break statement	jump statement; break;		

```
while (expression 1)
{
    if (expression 2)
    {
        continue;
    }
    // Operation Statements
}

try {
        // run your code here
    }
    catch (exception $e) {
        //code to handle the exception
    }
    finally {
        //optional code that always runs
}
```

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

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 = \text{anna } \% 10;
      $bogart = $bogart* 10 + $d;
      $anna = $anna/10;
   if ($bogart== $number){
      return 1;
   else{
     return 0;
\text{$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(x = 1; x = n-1; x + 1)
{
x^* = (x + 1);
}
echo "The factorial of x = 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
```

```
<?php
echo "<pre>cho "cho "cho "cho ";
$num = 1;
for ($i = 1; $i <= 3; $i++) {
    for ($j = 1; $j <= $i; $j++) {
        echo $num . "&nbsp;";
        $num++;
        if ($j == $i) {
            echo "&nbsp;";
            echo "<br/>;
        }
    }
}
echo "";
?>
```

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_key()
	array_intersect_uassoc()
	array_intersect_ukey()
	array_key_exists()
	array_keys()
Array	array_map()
	array_merge()
	array_merge_recursive()
	array_multisort()
	array_pad()
	array_pop()
	array_product()
	array_push()
	array_rand()
	array_reduce()
	array_replace()
	array_replace_recursive()
	array_reverse()
	array_search()
	array_shift()
	array_slice()
	array_splice()
	array_spiice()
	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()
	<u>"</u>
	compact()
	count()
	current()
	each()
	end()
	extract()
	extract()
	in_array()
	key()
	krsort()
	ksort()
	list()
	natcasesort()
	natsort()
	next()
	pos()
	prev()
	range()
	reset()
	Y
	rsort()
	shuffle()
	sizeof()
	sort()
	uasort()
	uksort()
	usort()
	cal_days_in_month()
	cal_from_jd()
	cal_info()
	cal_to_jd()
	easter_date()
	easter_days()
	frenchtojd()
	gregoriantojd()
Calendar	jddayofweek()
Salondar	jdmonthname()
	jdtofrench()
	jdtorrenon() jdtogregorian()
	jdtojewish()
	jdtojewish() jdtojulian()
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	jdtojewish() jdtojulian() jdtounix() jewishtojd() juliantojd() unixtojd() checkdate() date_add() date_create_from_format() date_create()
Date	jdtojewish() jdtojulian() jdtounix() jewishtojd() juliantojd() unixtojd() checkdate() date_add() date_create_from_format() date_date_set() date_date_set()
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Date	jdtojewish() jdtojulian() jdtounix() jewishtojd() juliantojd() unixtojd() checkdate() date_add() date_create_from_format() date_create() date_date_set() date_default_timezone_get() date_default_timezone_set()
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Date	jdtojewish() jdtojulian() jdtounix() jewishtojd() juliantojd() unixtojd() checkdate() date_add() date_create_from_format() date_create() date_date_set() date_default_timezone_get() date_diff()

	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()
	date_time_set()
	date_timestamp_get()
	date_timestamp_set() date_timestamp_set()
	date_timestamp_set() date_timezone_get()
	date_timezone_set()
	date()
	getdate()
	gettimeofday()
	gmdate()
	gmmktime()
	gmstrftime()
	idate()
	localtime()
	microtime()
	mktime()
	strftime()
	strptime()
	strtotime()
	time()
	time() timezone_abbreviations_list()
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	timezone_identifiers_list()
	timezone_location_get()
	timezone_name_from_ abbr()
	timezone_name_get()
	timezone_offset_get()
	timezone_open()
	timezone_transitions_get()
	timezone_version_get()
	chdir()
	chroot()
	closedir()
	dir()
Directory	
•	getcwd()
	opendir()
	readdir()
	rewinddir()
	scandir()
	debug_backtrace()
	debug_print_backtrace()
	error_clear_last()
	error_get_last()
	error_log()
Error	error_reporting()
	restore_error_handler()
	restore_exception_handler()
	set_error_handler()
	set_error_nandier() set_exception_handler()
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I I	trigger_error()
	trigger_error() user_error()
File System	trigger_error() user_error() basename()
File System	trigger_error() user_error()

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chown()
clearstatcache()
copy()
delete()
dirname()
disk_free_space()
disk_total_space()
diskfreespace()
fclose()
feof()
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()
```

	1611 ()
	readfile()
	readlink()
	realpath()
	realpath_cache_get()
	realpath_cache_size()
	rename()
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	rewind()
	rmdir()
	set_file_buffer()
	stat()
	symlink()
	tempnam()
	tmpfile()
	touch()
	umask()
	unlink()
	filter_has_var()
	filter_id()
	filter_input()
Filter	filter_input_array()
	filter_list()
	filter_var()
	filter_var_array()
	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()
	ftp_mlsd()
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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()
	<pre>ftp_rename()</pre>
	ftp_rmdir()
	ftp_set_option()
	ftp_site()
	ftp_size()
	•
	ftp_ssl_connect()
	ftp_systype()
	libxml_clear_errors()
Libxml	libxml_disable_entity_loader()
	libxml_get_errors()
	libxml_get_last_error()

	libxml_set_external_entity_loader()
	libxml_set_streams_context()
	libxml_use_internal_errors()
Mail	ezmlm_hash() mail()
	abs() acos()
	acosh()
	asin() asinh()
	atan()
	atan2()
	atanh()
	base_convert() bindec()
	ceil()
	cos()
	cosh()
	decbin()
	dechex() decoct()
	deg2rad()
	exp()
	expm1()
	floor() fmod()
	getrandmax()
	hexdec()
Math	hypot()
Matti	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()
Misc	constant()
	define()
	defined()
	die()

	eval()
	exit()
	get_browser()
	halt_compiler()
	highlight_file()
	- "
	highlight_string()
	hrtime()
	ignore_user_abort()
	pack()
	php_strip_whitespace()
	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()
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	error()
	error_list()
	fetch_all()
	fetch_array()
	fetch_assoc()
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	fetch_field()
	fetch_field_direct()
MySQLi	fetch_fields()
	fetch_lengths()
	fetch_object()
	fetch_row()
	field_count()
	field_seek()
	get_charset()
	get_client_info()
	get_client_stats()
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	get_client_version()
	get_connection_stats()
	get_host_info()
	get_proto_info()
	get_server_info()
	get_server_version()
	<u> </u>
	info()
	init()
	insert_id()
	kill()
	more_results()
	<u> </u>
	multi_query()
	next_result()
	options()
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	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()
	ss/_set()
	stat()
	stmt_init()
	store_result()
	thread_id()
	thread_safe()
	use_result()
	warning_count()
	checkdnsrr()
	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()
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	http_response_code()
	inet_ntop()
	inet_pton()
	ip2long()
	long2ip()
	openlog()
	pfsockopen()
	setcookie()
	setrawcookie()
	socket_get_status()
	socket_get_status() socket_set_blocking()
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	socket_set_timeout()
	syslog()
	_construct()
Cimala VMI	_toString()
SimpleXML	addAttribute()
	addChild()
	asXML()

	attribute a /
	attributes()
	children()
	count()
	getDocNamespaces()
	getName()
	getNamespaces()
	registerXPathNamespace()
	saveXML()
	simplexml_import_dom()
	simplexml_load_file()
	simplexmi_load_string()
	,
	xpath()
	current()
	getChildren()
	hasChildren()
	key()
	next()
	rewind()
	valid()
	set_socket_blocking()
	stream_bucket_prepend()
	stream_context_create()
	stream_context_get_default()
	stream_context_get_options()
	stream_context_get_options()
	stream_context_set_default()
	stream_context_set_options()
	stream_context_set_params()
	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()
	stream_is_local()
Stream	stream_is_local() stream_isatty()
	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()
	chr()
	chunk_split()
	convert_cyr_string()
	convert_uudecode()
	convert_uuencode()
	count_chars()
	crc32()
	crypt()
	echo() explode()
	fprintf()
	get_html_translation_table()
	hebrev()
	hebrevc()
	hex2bin()
	html_entity_decode()
	htmlentities()
	htmlspecialchars_decode()
	htmlspecialchars()
	implode()
	join() lcfirst()
	levenshtein()
	localeconv()
	Itrim()
String	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()
	V
	strcspn()
	strip_tags()
	stripcslashes()
	stripslashes()
	stripos()
	stristr()
	strlen()
	strnatcasecmp()
	strnatcmp()
	strncasecmp()
	strncmp()
	strpbrk()
	strpos()
	strrchr()
	strrev()
	strripos()
	strrpos()
	strspn()
	strstr()
	strtok()
	strtolower()
	strtoupper()
	strt()
	substr()
	substr_compare()
	substr_count()
	V
	substr_replace()
	trim()
	ucfirst()
	ucwords()
	vfprintf()
	vprintf()
	vsprintf()
	wordwrap()
	utf8_decode()
	utf8_encode()
	xml_error_string()
	xml_get_current_byte_index()
	xml_get_current_column_number()
	xml_get_current_line_number()
	xml_get_error_code()
	xml_parse()
	xml_parse_into_struct()
	xml_parser_create_ns()
	xml_parser_create()
XML Parser	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_external_entity_ret_nandler() xml_set_notation_decl_handler()
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	xml_set_object() xml_set_processing_instruction_handler()
	xml_set_start_namespace_decl_handler()
	xml_set_unparsed_entity_decl_handler()

Zip	zip_close()
	zip_entry_close()
	zip_entry_compressedsize()
	zip_entry_compressionmethod()
	zip_entry_filesize()
	zip_entry_name()
	zip_entry_open()
	zip_entry_read()
	zip_open()
	zip_read()
Timezones	DateTimeZone::construct
	DateTimeZone::getLocation
	DateTimeZone::getName
	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.

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
$str1 = 'The quick brown fox';
echo preg_replace('/\W\w+\s*(\W*)$/', '$1', $str1)."\n";
?>
```

c. Write a PHP script to remove nonnumeric characters except comma and dot. Sample String: '/\$123,34.00A#'

```
<?php
$str1 = "$12,334.00A#";
echo preg_replace("/[^0-9,.]/", "", $str1)."\n";
2>
```

Expected output: 123,34.00

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

Sample String. The quick brown [lox].

Expected output: Fox

```
<?php
$my_text = 'The quick brown [Fox].';
preg_match('#\[(.*?)\]#', $my_text, $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
$string = 'abcde$ddfd@abcd )der]';
$newstr = preg_replace("/[^A-Za-z0-9 ]/", ", $string);
echo ".$newstr."\n";
?>
```

Activity 4: Error Handling

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

```
A. Parse error or Syntax Error:
          <?php
          x = geeks;
          y = "Computer science";
          echo $x;
          echo $y;
          ?>
   Error
   PHP Parse error: syntax error, unexpected '=' in
   /home/18cb2875ac563160a6120819bab084c8.php on line 3
          <?php
          x = geeks;
          y = "Computer science";
          echo $x:
          echo $v;
   Explanation: In above program, $ sign is missing in line 3 so it gives an error
   message.
B. Fatal Error:
   // Set MySQLi to throw exceptions
   mysqli_report(MYSQLI_REPORT_ERROR | MYSQLI_REPORT_STRICT);
   try {
      $connection2 = mysgli connect('localhost', 'root1', 'Abc123456!', 'testx');
   } catch (mysqli sql exception $ex) {
     throw new Exception("Can't connect to the database! \n" . $ex);
```

Error:

Fatal error: Uncaught Exception: Can't connect to the database! mysqli_sql_exception: Access denied for user 'root1'@'localhost' to database 'testx'

Error Handling

```
mysqli_report(MYSQLI_REPORT_ERROR |
MYSQLI_REPORT_STRICT);
try {
    $connection2 = mysqli_connect('localhost', 'root1', 'Abc123456!',
'testx');
} catch (mysqli_sql_exception $ex) {
    die("Can't connect to the database! \n" . $ex);
}
```