ACTIVITY ANSWER SHEET

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Section:	BSIT-3R2

Instructions:

- 1. Push your output on your GITHUB repository.
- 2. 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	<pre>if (condition){ code to be executed if condition is true; } else { code to be executed if condition is false; }</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 and this condition is true; } else { code to be executed if all conditions are false; }</pre>	
4. switchcase	switch (n) { case nlabel1: code to be executed if n=label1; break; case label2: code to be executed if n=label2; break; case label3: code to be executed if n=label3; break; default: code to be executed if n is different from all labels; }	
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	while (condition is true) { code to be executed; }	
8. foreach loop	foreach (\$array as \$value) { code to be executed; }	

```
1.
                                    jump statement;
9. break statement
                             2.
                                    break;
                             <?php
                            Loop (While, do-while, for,)
                            conditions
10. continue statement
                            continue;//continue statement
                            code executed;
                            }
                             ?>
                             <?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
                            try {
                             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.

Expected output: Not a number

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>
```

Expected output: 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
function check($number){
    if($number % 2 == 0){
        echo "Even ";
    }
    else{
        echo "Odd ";
    }
}
function sample($number){
    if($number >= 0){
        echo "& Positive";
    }
    else{
```

```
echo "& Negative";
}
}
$number = -1;
check($number);
sample($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($string){
        if (strrev($string) == $string){
                return 1;
        }
        else{
                return 0;
        }
// Driver Code
$original = "anna";
if(Palindrome($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 "Factorial of $n is = $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

2 3

456

```
<?php
$n = 3;
echo "sample input = " . $n . "\n";
$count = 1;
for ($i = $n; $i > 0; $i--)
{
   for ($j = $i; $j < $n + 1; $j++)
   {
      printf("%4s", $count);
      $count++;
   }
      echo "\n";</pre>
```

```
}
?>
```

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_map()
                                                    array_merge()
                                                    array_merge_recursive()
                                                    array_multisort()
Array
                                                    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_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()
```

	1
	asort()
	compact()
	count()
	current()
	each()
	end()
	extract()
	in_array()
	key()
	krsort()
	ksort()
	list()
	natcasesort()
	natsort()
	next()
	pos()
	prev()
	range()
	reset()
	rsort()
	shuffle()
	sizeof()
	sort()
	uasort()
	uksort()
	usort()
	cal_days_in_month()
	cal_from_id()
	cal_info()
	cal_to_jd()
	easter_date()
	easter_days()
	frenchtojd()
	gregoriantojd()
Calendar	jddayofweek()
	jdmonthname()
	jdtofrench()
	jdtogregorian()
	jdtojewish()
	jdtojulian()
	jdtounix()
	jewishtojd()
	juliantojd()
	unixtojd()
Date	checkdate()
	date_add()
	date_create_from_format()
	date_create()
	date_date_set()
	date_default_timezone_get()
	date_default_timezone_set()
	date_diff()
	date_format()
	date_get_last_errors()
	date_interval_create_from_date_string()
	date_interval_create_iroin_date_string() date_interval_format()
	date_interval_format() date_isodate_set()
	date_isodate_set() date_modify()
	date_offset_get()
T. Control of the con	date_parse_from_format()
	date_parse()
	date_parse() date_sub()
	date_parse()

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	date_sunset()
	date_time_set()
	date_timestamp_get()
	date_timestamp_set()
	date_timezone_get()
	date_timezone_set()
	date()
	···
	getdate()
	gettimeofday()
	gmdate()
	gmmktime()
	gmstrftime()
	idate()
	localtime()
	microtime()
	mktime()
	· · · · · · · · · · · · · · · · · · ·
	strftime()
	strptime()
	strtotime()
	time()
	timezone_abbreviations_list()
	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()
Birectory	opendir()
	readdir()
	rewinddir()
	scandir()
	debug_backtrace()
	debug_print_backtrace()
	error_clear_last()
	error_get_last()
	error_log()
	error_reporting()
Error	restore_error_handler()
	restore_exception_handler()
	set_error_handler()
	set_exception_handler()
	trigger_error()
	user_error()
File System	basename()
	chgrp()
	chmod()
	chown()
	clearstatcache()
	copy()
	delete()
	dirname()
	disk_free_space()
	disk_total_space()
	diskfreespace()
	fclose()
	feof()
	fflush()
1	· · · · · · · · · · / //

```
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()
symlink()
tempnam()
tmpfile()
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	touch()
	umask()
	unlink()
	filter_has_var()
	filter_id()
ett.	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()
	ftp_nb_continue()
FTP	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()
	ezmlm_hash()
Mail	mail()
Math	abs()
	acos()
	acosh()
	asin()
	:11
	asinh()
	asinh() atan()
	asinh() atan() atan2()
	asinh() atan()

	bindec()
	ceil()
	cos()
	cosh()
	decbin()
	dechex()
	decort()
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	deg2rad()
	exp()
	expm1()
	floor()
	fmod()
	getrandmax()
	hexdec()
	hypot()
	7.7
	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()
NA**	tanh()
Misc	connection_aborted()
	connection_status()
	connection_timeout()
	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()

	unpack()
	usleep()
	азгеср()
MySQLi	affected_rows()
·	autocommit()
	begin_transaction()
	change_user()
	character_set_name()
	close()
	commit()
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	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()
	field_seek()
	get_charset()
	get_client_info()
	get_client_stats()
	get_client_version()
	get_connection_stats()
	get_host_info()
	get_nost_mo()
	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()
	ssi_set() stat()
	Juli Juli

	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()
	http_response_code()
	inet_ntop()
	inet_pton()
	ip2long()
	long2ip()
	openlog()
	pfsockopen()
	setcookie()
	<u>'</u>
	setrawcookie()
	socket_get_status()
	socket_set_blocking()
	socket_set_timeout()
	syslog()
	construct()
	toString()
	addAttribute()
	addChild()
	asXML()
	attributes()
	children()
C: L VA II	count()
SimpleXML	getDocNamespaces()
	getName()
	getNamespaces()
	registerXPathNamespace()
	saveXML()
	simplexml_import_dom()
	simplexml_load_file()
	simplexml_load_string()
	xpath()
Stream	set_socket_blocking()
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	stream_bucket_prepend()
	stream_context_create()
	stream_context_get_default()
	stream_context_get_options()
	stream_context_get_params()
	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_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()
String	addcslashes()
String	addslashes()
	I
	bin2hex()
	chop()
	chr()
	chunk_split()
	convert_cyr_string()
	convert_uudecode()
	convert_uuencode()
	count_chars()
	crc32()
	l "
	crypt()
	echo()
	explode()
	fprintf()
	get_html_translation_table()
	hebrev()
	hebrevc()
	hex2bin()
	html_entity_decode()
	htmlentities()
	1
	htmlspecialchars_decode()
	htmlspecialchars()
	implode()
	join()
	· · ·
	join()

```
localeconv()
Itrim()
md5()
md5_file()
metaphone()
money_format()
nl_langinfo()
nl2br()
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()
```

	tring()
	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_free()
XML Parser	xml_parser_get_option()
	xml_parser_set_option()
	xml_set_character_data_handler()
	xml_set_default_handler()
	xml_set_element_handler()
	xml_set_end_namespace_decl_handler()
	xml_set_external_entity_ref_handler()
	xml_set_notation_decl_handler()
	xml_set_notation_deci_nandier() xml_set_object()
	xml_set_object() xml_set_processing_instruction_handler()
	xml_set_start_namespace_decl_handler()
	xml_set_unparsed_entity_decl_handler()
	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()
	Africa
	America
	Antarctica
	Arctic
Timezones	Asia
Timezones	Atlantic
	Australia
	Europe
	Indian
	Pacific
	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.

A regular expression (regex or regexp for short) is a special text string for describing a search pattern. You can think of regular expressions as wild cards on steroids. You are probably familiar with wild card notations such as *.txt to find all text files in a file manager. The regex equivalent is ^.*\.txt\$.

```
<?php
$my_url = "www.guru99.com";
if (preg_match("/guru/", $my_url))
{
    echo "the url $my_url contains guru";
}
else
{
    echo "the url $my_url does not contain guru";
}
?>
```

- 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
$str1 = 'The quick brown fox.';
if (strpos($str1,'fox') !== false)
{
   echo 'Fox is found the string.';
}
else
{
   echo 'Fox is not found as 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
$str1 = 'The quick brown fox';
echo preg_replace('/\W\w+\s*(\W*)$/', '$1', $str1)."\n";
?>
```

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

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

```
<?php

$str1 = "/$123,34.00A#";

echo preg_replace("/[^0-9,.]/", "", $str1)."\n";

?>
```

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

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.

Parse error or Syntax Error Fatal Error Warning Errors Notice Error

Parse error or Syntax error

Example of a non-indented code:

```
<?
if ($condition){
  echo "true";
?>

This is often due to a poorly organized presentation of your code. Especially remember to indent
your code well, to visually distinguish the different blocks.
```

```
Fatal errors
sample code:
<?php
function add($x, $y)
  \$sum = \$x + \$y;
  echo "sum = " . $sum;
$x = 0;
y = 20;
add($x, $y);
diff(x, y);
?>
In line 12, function is called but the definition of function is not available. So it gives error.
Warning errors
sample code:
<?php
$x = "GeeksforGeeks";
include ("gfg.php");
echo $x . "Computer science portal";
?>
```

This program call an undefined file gfg.php which are not available. So it produces error.

```
Notice error

sample code:

<?php
$x = "GeeksforGeeks";
echo $x;
echo $geeks;
?>
```

This program use undeclared variable \$geeks so it gives error message.