## **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. 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
                             code to be executed;
                             } while (condition is true);
7. while loop
                             while (condition is true) {
                             code to be executed;
                             foreach ($array as $value) {
8. foreach loop
                             code to be executed;
                             }
9. break statement
                                jump statement;
                                 break;
10. continue statement
                             <?php
                             Loop (While, do-while, for,)
                             conditions
                             continue;//continue statement
                             code executed;
                             ?>
11. try...catch
                             <?php
                             function checkNum($number) {
                             if($number>1) {
                               throw new Exception("Value must be 1 or below");
                              }
                             return true;
                             //trigger exception in a "try"block
                             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.

a. Write a program that checks if value is a number (integer).

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

Expected output: Positive & Even Expected output: Negative and Odd

```
<?php
function check($number){
  if(\text{number } \% 2 == 0)
    echo "Even ";
 }
 else{
    echo "Odd ";
 }
function sample($number){
  if(\text{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

```
?>
```

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";
}
?>
```

## Activity 2: PHP Built-in Functions

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

```
Array

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_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()
asort()
compact()
count()
current()
each()
end()
extract()
in_array()
key()
krsort()
```

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	ksort()
	list()
	natcasesort()
	natsort()
	next()
	pos()
	prev()
	range()
	reset()
	rsort()
	shuffle()
	sizeof()
	sort()
	uasort()
	uksort()
	usort()
Calendar	cal_days_in_month()
	cal_from_jd()
	cal_info()
	cal_to_jd()
	easter_date()
	easter_days()
	frenchtojd()
	gregoriantojd()
	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_format()
	date_isodate_set()
	date_modify()
	date_offset_get()
	date_parse_from_format()
	date_parse()
	date_sub()
	date_sun_info()

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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()
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	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_open() timezone_transitions_get()
	timezone_transitions_get() timezone_version_get()
D'andre	
Directory	chdir()
	chroot()
	closedir()
	dir()
	getcwd()
	opendir()
	readdir()
	rewinddir()
	scandir()
Error	debug_backtrace()
	debug_print_backtrace()
	error_clear_last()
	error_get_last()
	error_log()
	error_reporting()
	restore_error_handler()
	restore_exception_handler()
	set_error_handler()
	set_exception_handler()
I	trigger_error()
	1
	user_error()
File System	basename()
File System	

chmod() 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()
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	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()
	touch()
	umask()
	unlink()
Filter	filter_has_var()
Filler	
	filter_id()
	filter_input()
	filter_input_array()
	filter_list()
	filter_var()
	filter_var_array()
FTP	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_nb_fget()
	ftp_nb_fput()
	ftp_nb_get()
	ftp_nb_put()
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	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	libxml_clear_errors()
	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()
Math	abs()
	acos()
	acosh()
	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()

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sleep() sys_getloadavg() time_nanosleep() time_sleep_until() uniqid() unpack() unpack() unpack() affected_rows() autocommit()		show_source()
sys_getloadavg() time_nanosleep() time_sleep_until() uniqid() unpack() unpack() unpack() usleep()  MySQLi  affected_rows() autocommit()		
time_nanosleep() time_sleep_until() uniqid() unpack() unpack() unpack() usleep()  MySQLi  affected_rows() autocommit()		* **
time_sleep_until() uniqid() unpack() unpack() unpack() sleep()  MySQLi  affected_rows() autocommit()		
uniqid()           unpack()           unpack()           usleep()           MySQLi         affected_rows()           autocommit()		
unpack() unpack() usleep()  MySQLi  affected_rows() autocommit()		
unpack() usleep()  MySQLi  affected_rows() autocommit()		
<pre>usleep()  MySQLi  affected_rows() autocommit()</pre>		
MySQLi affected_rows() autocommit()		
autocommit()	M.COI:	
	IVIYOULI	
I havin transaction/		
		begin_transaction()
change_user()		
character_set_name()		
close()		
commit()		commit()
connect()		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_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()
stmt_init()
```

	I 110
	store_result()
	thread_id()
	thread_safe()
	use_result()
	warning_count()
Network	checkdnsrr()
	closelog()
	define_syslog_variables()
	dns_check_record()
	dns_get_mx()
	dns_get_record()
	fsockopen()
	gethostbyaddr()
	gethostbyname()
	gethostbynamel()
	gethostname()
	getmxrr()
	getprotobyname()
	getprotobynumber()
	· · · · · · · · · · · · · · · · · · ·
	getservbyname()
	getservbyport()
	header_register_callback()
	header_remove()
	header()
	headers_list()
	headers_sent()
	http_response_code()
	inet_ntop()
	inet_pton()
	ip2long()
	long2ip()
	openlog()
	pfsockopen()
	setcookie()
	setrawcookie()
	socket_get_status()
	socket_set_blocking()
	socket_set_timeout()
	syslog()
SimpleXML	construct()
·	toString()
	addAttribute()
	addChild()
	asXML()
	attributes()
	children()
	count()
	getDocNamespaces()
	getName()
	getNamespaces()
	registerXPathNamespace()
	saveXML()
	simplexml_import_dom()

	simulation file()
	simplexml_load_file()
	simplexml_load_string()
<u> </u>	xpath()
Stream	set_socket_blocking()
	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()
	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()
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()
	5 11
	strncasecmp()
	strncmp()
	strpbrk()
	strpos()
	strrchr()
	strrev()
	strripos()
	strrpos()
	strspn()
	strstr()
	•
	strtok()
	strtolower()
	strtoupper()
	strtr()
	substr()
	substr_compare()
	substr_count()
	substr_replace()
	trim()
	ucfirst()
	· · · · · · · · · · · · · · · · · · ·
	ucwords()
	vfprintf()
	vprintf()
	vsprintf()
	wordwrap()
XML Parser	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_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_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	Africa
	America
	Antarctica
	Arctic
	Asia
	Atlantic
	Australia
	Europe
	Indian
	Pacific

Activity 3: Regular Expression

• 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";
?>
```

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.