## **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><?php \$x = 11; if(\$x > 10){   echo '\$x is greater than 10'; }</pre>		
2. ifelse	<pre> <?php \$x = 2; if(\$x > 10){   echo "\$x is greater than 10"; }else{   echo "\$x is less than 10"; } ?&gt;</pre>		
3. ifelse ifelse	<pre> <!--php \$x = 20; if(\$x --> 0){     echo "\$x is greater than zero"; }elseif(\$x == 0){     echo "\$x is zero"; }else{     echo "\$x is less than zero"; } ?&gt;</pre>		
4. switchcase	<pre><?php \$x = rand(0,3); switch(\$x){   case 0: echo 'x is equal 0';   break;   case 1: echo 'x is equal 1';   break;   case 2: echo 'x is equal 2';   break;   case 3: echo 'x is equal 3';   break; } </pre></pre>		
5. for loop	<pre><?php for (\$i = 1; \$i < 11; \$i++) {   echo \$i . ' '; } ?&gt;</pre>		
6. do while loop	<pre><?php \$i = 10; do {   echo \$i . ' ';   \$i; } while (\$i &gt; 0); ?&gt;</pre>		

```
<?php
                             define('MAX',10);
                              $counter = 1;
7. while loop
                             while($counter <= MAX){
    echo "The current value of the counter is {$counter}<br/>";
                              $counter++;
                             }
?>
                             foreach loop
                              <?php
                             $scores = [1,2,3];
foreach ($scores as $score) {
8. foreach loop
                              echo $score;
                             }
?>
                             <?php
                             for($i=1;$i<=10;$i++)
                             echo "$i <br/>";
                             if($i==5)
9. break statement
                             break;
                             }
}
                              ?>
                              <?php
                              $i= array(0=>'Apple',1=>'Orange','Banana', 'Mango');
                             foreach($i as $v)
                               if($v=='Mango')
10. continue statement
                                continue;
                               echo "Value:". "$v."."<br>"."<br>";
                              ?>
                              <?php
                             function test() {
                                try {
                                   throw new Exception('foo');
                                } catch (Exception $e) {
11. try...catch
                                   return 'catch';
                                } finally {
                                   return 'finally';
                             }
                             echo test();
```

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
$int = 1;
$int = '1';

if (filter_var($int, FILTER_VALIDATE_INT)) {
    echo("Not a number");
} else {
    echo("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

Expected output: Positive & Even Exp

Expected output: Negative and Odd

```
<?php
function check($number){
   if($number % 2 == 0){
      echo "Positive and Even";
   }
   else{
      echo "Negative and Odd";
   }
}
snumber = 39;
check($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;
   }
}

$original = "DAD";
if(Palindrome($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 "$x"."\n";
?>
```

e. Write a PHP program to generate and display the first n lines of a Floyd triangle.

```
Sample input: 3
```

Sample output:

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
                                            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()
```

	10
	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()
	, v
	current()
	each()
	end()
	extract()
	in array()
	key()
	krsort()
	ksort()
	list()
	natcasesort()
	· · · · · · · · · · · · · · · · · · ·
	natsort()
	next()
	pos()
	prev()
	range()
	reset()
	V
	rsort()
	shuffle()
	sizeof()
	sort()
	uasort()
	uksort()
	usort()
	cal_days_in_month()
	cal_from_jd()
	cal_info()
	cal_to_jd()
	l = = "
	easter_date()
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	gregoriantojd()
	jddayofweek()
	jdmonthname()
	jdtofrench()
	jdtogregorian()
	jdtojewish()
	jdtojulian()
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	jewishtojd()
	juliantojd()
	unixtojd()
	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_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	date_timestamp_set()
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	date_timezone_set()
	date()
	getdate()
	gettimeofday()
	gmdate()
	gmmktime()
	gmstrftimee()
	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()
Directory	chdir()
	chroot()
	closedir()
	dir()
	getcwd()
	opendir()
	readdir()
	rewinddir()
	scandir()
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Error	debug_backtrace() debug_print_backtrace() error_get_last() error_log() error_reporting() restore_error_handler() restore_exception_handler() set_error_handler() set_exception_handler() trigger_error()
File System	basename() chgrp() chmod() chown() clearstatcache() copy() delete() dirname() disk_free_space() disk_free_space() fclose() feof() fflush() fgetc() fgetssv() fgetssv() file_exists() file_exists() file_put_contents() file_put_contents() fileatime() filegroup() fileinode() fileperms() fileperms() fileperms() filesize() filetype() flock() fnmatch() fopen() fpassthru() fputcsv() fputs() fread() fscanf() fseek() fstat() ftell() ftruncate() fwrite() glob() is_dir() is_executable() is_file() is_lendadd_file()

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	libxml_set_external_entity_loader()
	libxml_set_streams_context()
	libxml_use_internal_errors()
	ezmlm_hash()
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	man()
	abs()
	acos()
	acosh()
	asin()
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	atan2()
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	base_convert()
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	decbin()
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	expm1()
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	hexdec()
	hypot()
	intdiv()
	is_finite()
	is_infinite()
	is_nan()
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	log()
	log10()
	log1p()
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	mt_rand()
	mt_srand()
	octdec()
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	eval()
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	get_browser()
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	hrtime()
	ignore_user_abort()
	pack()
	php_strip_whitespace()
	show source()
	sleep()
	sys_getloadavg()
	time_nanosleep()
	time_sleep_until()
	uniqid()
	unpack()
	usleep()
	affected_rows
	autocommit
	change_user
	character_set_name
	close
	commit
	connect
	connect errno
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	data_seek
	debug
	dump_debug_info
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	fetch_all
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	info
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	next result
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	query
	real_connect
	real_escape_string
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	rollback
	select db
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	dns_get_record()
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	getprotobyname()
	getprotobynumber()
	getservbyname()
	getservbyport()
	header_register_callback()
	header remove()
	header()
	headers_list()
	headers_sent()
	http_response_code()
	inet_ntop()
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	ip2long()
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	socket_set_timeout()
	syslog()
	construct()
	tostring()
	addAttribute()
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	asXML()
	attributes()
	children()
	count()
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	getDocNamespaces()
	getName()
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SimpleXML	registerXPathNamespace()
	saveXML()
	simplexml_import_dom()
	simplexml_load_file()
	simplexml_load_string()
	xpath()
	current()
	getchildren()
	haschildren()
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	key()
	next()
	rewind()
	valid()
	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()
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	stream socket server()
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	stream_supports_lock()
	stream_wrapper_register()
	stream_wrapper_restore()
	stream_wrapper_unregister()
	addcslashes()
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	bin2hex()
	chop()
	chr()
	chunk_split()
	convert_cyr_string()
	convert_uudecode()
	convert_uuencode()
	count_chars()
	crc32()
	crypt()
	echo()
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	explode()
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	htmlspecialchars()
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	parse_str()
	print()
	printf()
	quoted_printable_decode()
	quoted_printable_encode()
	quotemeta()
	rtrim()
	setlocale()
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	sha1_file()
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	sscanf()
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	str_repeat()
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	str_shuffle()
	str_split()
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	strcasecmp()
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	strcmp()
	strcoll()
	strcspn()
	strip_tags()
	stripcslashes()
	stripslashes()
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	strrpos()
	strspn()
	strstr()
	strtok()
	strtolower()
	strtoupper()
	strtr()
	substr()
	substr compare()
	substr count()
	substr replace()
	trim()
	ucfirst()
	ucwords()
	vfprintf()
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	utf8_decode()
	utf8_encode()
	xml_error_string()
	xml_get_current_byte_index()
	xml_get_current_column_number()
	xml_get_current_line_number()
XML Parser	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()
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	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()
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	Australia
	Europe
	Indian
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### **Activity 3: Regular Expression**

- 1. Define Regular Expression (RegEx) and provide example programming scenario where you can use (RegEx). Provide example syntax in PHP.
- 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
$word = "fox";
$mystring = "The quick brown fox";

// Test if string contains the word
if(strpos($mystring, $word) !== false){
    echo "Fox is found the string";
} else{
    echo "Fox Not Found!";
}
?>
```

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 = "$12,334.00A";
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";</pre>
```

?>

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 )derl'

Expected output: abcdeddfd abcd der

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

### **Activity 4: Error Handling**

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

```
<?php
$test = 5;
if ($test > 1) {
    trigger_error('Value of $test must be 1 or less', E_USER_NOTICE);
}
```

## The example below records errors to a database table database whenever one is encountered

```
<?php
function errorHandler($errno, $errstr, $errfile, $errline) {
  static $db:
  if (empty($db)) {
    $db = new PDO(DSN, DBUSER, DBPASS);
  }
  $query = "INSERT INTO errorlog (severity, message, filename, lineno, time) VALUES
(?, ?, ?, ?, NOW())";
  $stmt = $db->prepare($query);
  switch ($errno) {
    case E NOTICE:
    case E USER NOTICE:
    case E DEPRECATED:
    case E USER DEPRECATED:
    case E STRICT:
       $stmt->execute(array("NOTICE", $errstr, $errfile, $errline));
       break;
    case E WARNING:
    case E USER WARNING:
       $stmt->execute(array("WARNING", $errstr, $errfile, $errline));
       break;
    case E ERROR:
    case E USER ERROR:
       $stmt->execute(array("FATAL", $errstr, $errfile, $errline));
       exit("FATAL error $errstr at $errfile:$errline");
```

```
default:
        exit("Unknown error at $errfile:$errline");
}

set_error_handler("errorHandler");

$test = 5;
if ($test > 1) {
    trigger_error("Value of $test must be 1 or less", E_USER_NOTICE);
}

Handling Errors using Exceptions

<?php
try {
    $data = $this->getDataFromService();
}
catch (Exception $e) {
    echo "Caught exception: " . $e->getMessage() . "n";
}
```