ACTIVITY ANSWER SHEET

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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) {
                          code to be executed if first condition is false
3. if...else if...else
                      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
                         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' 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 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(=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
```

```
<?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_pad()
	array_pop()
A	array_product()
Array	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()

	2.4.2.4()
	extract()
	extract()
	in_array()
	key()
	krsort()
	ksort()
	list()
	natcasesort()
	natsort()
	next()
	pos()
	prev()
	range()
	reset()
	rsort()
	shuffle()
	sizeof()
	sort()
	uasort()
	uasort() uksort()
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	usort()
	cal days in month()
	cal_days_in_month()
	cal_from_jd()
	cal_info()
	cal_to_jd()
	easter_date()
	easter_days()
	frenchtojd()
	gregoriantojd()
Calendar	jddayofweek()
	jdmonthname()
	jdtofrench()
	jdtogregorian()
	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()
	date_default_timezene_set()
	date_din() date format()
	date_get_last_errors()
Data	date_get_last_errors() date_interval_create_from_date_string()
Date	
	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()
	V

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_transitions_get()	
chdir()	
chroot()	
closedir()	
Directory dir()	
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_exception_handler()	
trigger_error()	
user_error()	
basename()	
chgrp()	
chmod()	
chown()	
clearstatcache()	
copy()	
File System 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()
readfile()
readlink()
realpath()
realpath_cache_get()
realpath_cache_size()
rename()
rewind()
rmdir()
set file buffer()
stat()
symlink()
```

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	tempnam()
	tmpfile()
	touch()
	umask()
	unlink()
	filter_has_var()
	filter_id()
	filter_input()
Filter	"
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	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	ftp_nb_continue()
FIF	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	libxml_get_errors()
	libxml_get_last_error()
	libxml_set_external_entity_loader()
	libxml_set_streams_context()
	libxml_use_internal_errors()
	ezmlm_hash()
Mail	_ "
	mail()
	abs()
	acos()
Math	
	acosh()
	asin()
	asinh()

	oton()
	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()
55	get_browser()
	halt_compiler()
	highlight_file()
	highlight_string()
	hrtime()
	ignore_user_abort()
	pack()
	php_strip_whitespace()
	php_strip_whitespace() show_source()

	alaan()
	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()
	field_seek()
MySQLi	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()
	_ <u> </u>
	real_escape_string()
	real_query()
	reap_async_query() refresh()
	rollback()
	select_db()

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	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()
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	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()
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	bin2hex()
	chop()
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	chunk split()
	convert cyr string()
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crc32()
crypt()
echo()
explode()
fprintf()
get_html_translation_table()
hebrev()
hebrevc()
hex2bin()
html_entity_decode()
htmlentities()
htmlspecialchars decode()
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join()
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md5()
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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()
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	strtok()
	strtolower()
	strtoupper()
	strtr()
	substr()
	substr compare()
	substr count()
	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	xml_parser_create()
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	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()
	xml_set_unparsed_entity_decl_handler()
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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#' 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";
?>
```

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
$string = 'abcde$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.