

ACTIVITY ANSWER SHEET

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Section:	R2

Instructions:

- 1. Push your output on your **GITHUB** repository.
- 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.

1. if	<pre>if (condition) {     code to be executed if condition is true; }</pre>
2. if...else	<pre>if (condition) {     code to be executed if condition is true; } else {     code to be executed if condition is false; }</pre>
3. if...else if...else	<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. switch...case	<pre>switch (n) {     case label1:         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; }</pre>
5. for loop	<pre>for (init counter; test counter; increment counter) {     code to be executed for each iteration; }</pre>
6. do while loop	<pre>do {     code to be executed; } while (condition is true);</pre>
7. while loop	<pre>while (condition is true) {     code to be executed; }</pre>



```
?>
```

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 = $anna % 10;
        $bogart = $bogart* 10 + $d;
        $anna = $anna/10;
    }
    if ($bogart== $number){
        return 1;
    }
    else{
        return 0;
    }
}

$original = 1441;
if (Palindrome($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
$H = 4;
$z = 1;
for($i=1;$i<=$H-1;$i++)
{
    $z*=( $i+1);
}
echo "The Factorial of  $H = $z"."";
?>
```

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
4 5 6
```

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

Activity 2: PHP Built-in Functions

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

Array	<div><div><b>array()</b></div><div><b>array_change_key_case()</b></div><div><b>array_chunk()</b></div><div><b>array_column()</b></div><div><b>array_combine()</b></div><div><b>array_count_values()</b></div><div><b>array_diff()</b></div><div><b>array_diff_assoc()</b></div><div><b>array_diff_key()</b></div><div><b>array_diff_uassoc()</b></div><div><b>array_diff_ukey()</b></div><div><b>array_fill()</b></div><div><b>array_fill_keys()</b></div><div><b>array_filter()</b></div><div><b>array_flip()</b></div><div><b>array_intersect()</b></div><div><b>array_intersect_assoc()</b></div><div><b>array_intersect_key()</b></div><div><b>array_intersect_uassoc()</b></div><div><b>array_intersect_ukey()</b></div><div><b>array_key_exists()</b></div><div><b>array_keys()</b></div><div><b>array_map()</b></div><div><b>array_merge()</b></div></div>
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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()  
extract()  
in\_array()  
key()  
krsort()  
ksort()  
list()  
natcasesort()  
natsort()  
next()  
pos()  
prev()  
range()  
reset()  
rsort()  
shuffle()

	<b>sizeof()</b> <b>sort()</b> <b>uasort()</b> <b>uksort()</b> <b>usort()</b>
Calendar	<b>cal_days_in_month()</b> <b>cal_from_jd()</b> <b>cal_info()</b> <b>cal_to_jd()</b> <b>easter_date()</b> <b>easter_days()</b> <b>frenchtojd()</b> <b>gregoriantojd()</b> <b>jddayofweek()</b> <b>jdmonthname()</b> <b>jdtofrench()</b> <b>jdtogregorian()</b> <b>jdtojewish()</b> <b>jdtojulian()</b> <b>jdtonix()</b> <b>jewishtojd()</b> <b>juliantojd()</b> <b>unixtojd()</b>
Date	<b>checkdate()</b> <b>date_add()</b> <b>date_create_from_format()</b> <b>date_create()</b> <b>date_date_set()</b> <b>date_default_timezone_get()</b> <b>date_default_timezone_set()</b> <b>date_diff()</b> <b>date_format()</b> <b>date_get_last_errors()</b> <b>date_interval_create_from_date_string()</b>  <b>date_interval_format()</b> <b>date_isodate_set()</b> <b>date_modify()</b> <b>date_offset_get()</b> <b>date_parse_from_format()</b> <b>date_parse()</b> <b>date_sub()</b> <b>date_sun_info()</b> <b>date_sunrise()</b> <b>date_sunset()</b> <b>date_time_set()</b> <b>date_timestamp_get()</b> <b>date_timestamp_set()</b> <b>date_timezone_get()</b> <b>date_timezone_set()</b>

	<b>date()</b> <b>getdate()</b> <b>gettimeofday()</b> <b>gmdate()</b> <b>gmmktime()</b> <b>gmstrftime()</b> <b>idate()</b> <b>localtime()</b> <b>microtime()</b> <b>mktime()</b> <b>strftime()</b> <b>strptime()</b> <b>strtotime()</b> <b>time()</b> <b>timezone_abbreviations_list()</b> <b>timezone_identifiers_list()</b> <b>timezone_location_get()</b> <b>timezone_name_from_abbr()</b> <b>timezone_name_get()</b> <b>timezone_offset_get()</b> <b>timezone_open()</b> <b>timezone_transitions_get()</b> <b>timezone_version_get()</b>
Directory	<b>chdir()</b> <b>chroot()</b> <b>closedir()</b> <b>dir()</b> <b>getcwd()</b> <b>opendir()</b> <b>readdir()</b> <b>rewinddir()</b> <b>scandir()</b>
Error	<b>debug_backtrace()</b> <b>debug_print_backtrace()</b> <b>error_clear_last()</b> <b>error_get_last()</b> <b>error_log()</b> <b>error_reporting()</b> <b>restore_error_handler()</b> <b>restore_exception_handler()</b> <b>set_error_handler()</b> <b>set_exception_handler()</b> <b>trigger_error()</b> <b>user_error()</b>
File System	<b>basename()</b> <b>chgrp()</b> <b>chmod()</b> <b>chown()</b> <b>clearstatcache()</b> <b>copy()</b>

	<b>delete()</b> <b>dirname()</b> <b>disk_free_space()</b> <b>disk_total_space()</b> <b>diskfreespace()</b> <b>fclose()</b> <b>feof()</b> <b>fflush()</b> <b>fgetc()</b> <b>fgetcsv()</b> <b>fgets()</b> <b>fgetss()</b> <b>file()</b> <b>file_exists()</b> <b>file_get_contents()</b> <b>file_put_contents()</b> <b>fileatime()</b> <b>filectime()</b> <b>filegroup()</b> <b>fileinode()</b> <b>filemtime()</b> <b>fileowner()</b> <b>fileperms()</b> <b>filesize()</b> <b>filetype()</b> <b>flock()</b> <b>fnmatch()</b> <b>fopen()</b> <b>fpassthru()</b> <b>fputcsv()</b> <b>fputs()</b> <b>fread()</b> <b>fscanf()</b> <b>fseek()</b> <b>fstat()</b> <b>ftell()</b> <b>ftruncate()</b> <b>fwrite()</b> <b>glob()</b> <b>is_dir()</b> <b>is_executable()</b> <b>is_file()</b> <b>is_link()</b> <b>is_readable()</b> <b>is_uploaded_file()</b> <b>is_writable()</b> <b>is_writeable()</b> <b>lchgrp()</b> <b>lchown()</b> <b>link()</b>
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	<div>linkinfo() lstat() 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()</div>
Filter	<div>filter_has_var() filter_id() filter_input() filter_input_array() filter_list() filter_var() filter_var_array()</div>
FTP	<div>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()</div>

	<b>ftp_nb_fput()</b> <b>ftp_nb_get()</b> <b>ftp_nb_put()</b> <b>ftp_nlist()</b> <b>ftp_pasv()</b> <b>ftp_put()</b> <b>ftp_pwd()</b> <b>ftp_quit()</b> <b>ftp_raw()</b> <b>ftp_rawlist()</b> <b>ftp_rename()</b> <b>ftp_rmdir()</b> <b>ftp_set_option()</b> <b>ftp_site()</b> <b>ftp_size()</b> <b>ftp_ssl_connect()</b> <b>ftp_systype()</b>
Libxml	<b>libxml_clear_errors()</b> <b>libxml_disable_entity_loader()</b> <b>libxml_get_errors()</b> <b>libxml_get_last_error()</b> <b>libxml_set_external_entity_loader()</b> <b>libxml_set_streams_context()</b> <b>libxml_use_internal_errors()</b>
Mail	<b>ezmlm_hash()</b> <b>mail()</b>
Math	<b>abs()</b> <b>acos()</b> <b>acosh()</b> <b>asin()</b> <b>asinh()</b> <b>atan()</b> <b>atan2()</b> <b>atanh()</b> <b>base_convert()</b> <b>bindec()</b> <b>ceil()</b> <b>cos()</b> <b>cosh()</b> <b>decbin()</b> <b>dechex()</b> <b>decoct()</b> <b>deg2rad()</b> <b>exp()</b> <b>expm1()</b> <b>floor()</b> <b>fmod()</b> <b>getrandmax()</b> <b>hexdec()</b> <b>hypot()</b>



MySQLi	<b>affected_rows()</b> <b>autocommit()</b> <b>begin_transaction()</b> <b>change_user()</b> <b>character_set_name()</b> <b>close()</b> <b>commit()</b> <b>connect()</b> <b>connect_errno()</b> <b>connect_error()</b> <b>data_seek()</b> <b>debug()</b> <b>dump_debug_info()</b> <b>errno()</b> <b>error()</b> <b>error_list()</b> <b>fetch_all()</b> <b>fetch_array()</b> <b>fetch_assoc()</b> <b>fetch_field()</b> <b>fetch_field_direct()</b> <b>fetch_fields()</b> <b>fetch_lengths()</b> <b>fetch_object()</b> <b>fetch_row()</b> <b>field_count()</b> <b>field_seek()</b> <b>get_charset()</b> <b>get_client_info()</b> <b>get_client_stats()</b> <b>get_client_version()</b> <b>get_connection_stats()</b> <b>get_host_info()</b> <b>get_proto_info()</b> <b>get_server_info()</b> <b>get_server_version()</b> <b>info()</b> <b>init()</b> <b>insert_id()</b> <b>kill()</b> <b>more_results()</b> <b>multi_query()</b> <b>next_result()</b> <b>options()</b> <b>ping()</b> <b>poll()</b> <b>prepare()</b> <b>query()</b> <b>real_connect()</b> <b>real_escape_string()</b>
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	<div>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() store_result() thread_id() thread_safe() use_result() warning_count()</div>
Network	<div>checkdnsrr() closelog() define_syslog_variables() dns_check_record() dns_get_mx() dns_get_record() fsockopen() gethostbyaddr() gethostbyname() gethostbynameel() 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()</div>

	<b>syslog()</b>
SimpleXML	<b>_construct() _toString() addAttribute() addChild() asXML() attributes() children() count() getDocNamespaces() getName() getNamespaces() registerXPathNamespace() saveXML() simplexml_import_dom() simplexml_load_file() simplexml_load_string() xpath() current() getChildren() hasChildren() key() next() rewind() valid()</b>
Stream	<b>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()</b>

	<div>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()</div>
String	<div>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() hebrew() hebrevc() hex2bin() html_entity_decode() htmlentities() htmlspecialchars_decode() htmlspecialchars() implode() join() lcfirst() levenshtein() localeconv() ltrim() md5()</div>

	<div><div><div>md5_file()</div><div>metaphone()</div><div>money_format()</div><div>nl_langinfo()</div><div>nl2br() Inserts</div><div>number_format()</div><div>ord()</div><div>parse_str()</div><div>print()</div><div>printf()</div><div>quoted_printable_decode()</div><div>quoted_printable_encode()</div><div>quotemeta()</div><div>rtrim()</div><div>setlocale()</div><div>sha1()</div><div>sha1_file()</div><div>similar_text()</div><div>soundex()</div><div>sprintf()</div><div>sscanf()</div><div>str_getcsv()</div><div>str_ireplace()</div><div>str_pad()</div><div>str_repeat()</div><div>str_replace()</div><div>str_rot13()</div><div>str_shuffle()</div><div>str_split()</div><div>str_word_count()</div><div>strcasecmp()</div><div>strchr()</div><div>strcmp()</div><div>strcoll()</div><div>strcspn()</div><div>strip_tags()</div><div>stripslashes()</div><div>stripos()</div><div>stristr()</div><div>strlen()</div><div>strnatcasecmp()</div><div>strnatcmp()</div><div>strncasecmp()</div><div>strncmp()</div><div>strpbrk()</div><div>strpos()</div><div>strrchr()</div><div>strrev()</div><div>stripos()</div></div></div>
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	<div><div></div><div><div><b>strrpos()</b></div><div><b>strspn()</b></div><div><b>strstr()</b></div><div><b>strtok()</b></div><div><b>strtolower()</b></div><div><b>strtoupper()</b></div><div><b>strtr()</b></div><div><b>substr()</b></div><div><b>substr_compare()</b></div><div><b>substr_count()</b></div><div><b>substr_replace()</b></div><div><b>trim()</b></div><div><b>ucfirst()</b></div><div><b>ucwords()</b></div><div><b>vfprintf()</b></div><div><b>vprintf()</b></div><div><b>vsprintf()</b></div><div><b>wordwrap()</b></div></div></div>
XML Parser	<div><div></div><div><div><b>utf8_decode()</b></div><div><b>utf8_encode()</b></div><div><b>xml_error_string()</b></div><div><b>xml_get_current_byte_index()</b></div><div><b>xml_get_current_column_number()</b></div><div><b>xml_get_current_line_number()</b></div><div><b>xml_get_error_code()</b></div><div><b>xml_parse()</b></div><div><b>xml_parse_into_struct()</b></div><div><b>xml_parser_create_ns()</b></div><div><b>xml_parser_create()</b></div><div><b>xml_parser_free()</b></div><div><b>xml_parser_get_option()</b></div><div><b>xml_parser_set_option()</b></div><div><b>xml_set_character_data_handler()</b></div><div><b>xml_set_default_handler()</b></div><div><b>xml_set_element_handler()</b></div><div><b>xml_set_external_entity_ref_handler()</b></div><div><b>xml_set_notation_decl_handler()</b></div><div><b>xml_set_object()</b></div><div><b>xml_set_processing_instruction_handler()</b></div><div><b>xml_set_start_namespace_decl_handler</b></div><div><b>()</b></div><div><b>xml_set_unparsed_entity_decl_handler()</b></div></div></div>
Zip	<div><div></div><div><div><b>zip_close()</b></div><div><b>zip_entry_close()</b></div><div><b>zip_entry_compressedsize()</b></div><div><b>zip_entry_compressionmethod()</b></div><div><b>zip_entry_filesize()</b></div><div><b>zip_entry_name()</b></div><div><b>zip_entry_open()</b></div><div><b>zip_entry_read()</b></div></div></div>

	<b>zip_open()</b> <b>zip_read()</b>
Timezones	<b>DateTimeZone::__construct</b> <b>DateTimeZone::getLocation</b> <b>DateTimeZone::getName</b> <b>DateTimeZone::getOffset</b> <b>DateTimeZone::getTransitions</b> <b>DateTimeZone::listAbbreviations</b> <b>DateTimeZone::listIdentifiers</b>

### 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. Regular expressions help you accomplish tasks such as validating email addresses, IP address etc.

2. Solve the following 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
$textsample = 'The quick brown [Fox].';
preg_match('#\[(.*?)\]#', $textsample, $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:abcdeddfdadabcd 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.

- **E\_ERROR** : A fatal error that causes script termination
- **E\_WARNING** : Run-time warning that does not cause script termination
- **E\_PARSE** : Compile time parse error.
- **E\_NOTICE** : Run time notice caused due to error in code
- **E\_CORE\_ERROR** : Fatal errors that occur during PHP's initial startup (installation)
- **E\_CORE\_WARNING** : Warnings that occur during PHP's initial startup
- **E\_COMPILE\_ERROR** : Fatal compile-time errors indication problem with script.
- **E\_USER\_ERROR** : User-generated error message.
- **E\_USER\_WARNING** : User-generated warning message.
- **E\_USER\_NOTICE** : User-generated notice message.
- **E\_STRICT** : Run-time notices.
- **E\_RECOVERABLE\_ERROR** : Catchable fatal error indicating a dangerous error
- **E\_DEPRECATED** : Run-time notices.