

ACTIVITY ANSWER SHEET

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Section:	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. 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>
8. foreach loop	<pre>foreach (\$array as \$value) { code to be executed; }</pre>

9. break statement	1. jump statement; 2. break;
10. continue statement	while (expression 1) { if (expression 2) { continue ; } // Operation Statements }
11. try...catch	try { print "this is our try block n"; throw new Exception(); } catch (Exception \$e) { print "something went wrong, caught yah! n"; }

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';
}
```

- 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($number){
    if($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
4 5 6

```

```

<?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 | <div>array()<br/>array_change_key_case()<br/>array_chunk()<br/>array_column()<br/>array_combine()<br/>array_count_values()<br/>array_diff()<br/>array_diff_assoc()<br/>array_diff_key()<br/>array_diff_uassoc()<br/>array_diff_ukey()<br/>array_fill()<br/>array_fill_keys()<br/>array_filter()<br/>array_flip()<br/>array_intersect()<br/>array_intersect_assoc()<br/>array_intersect_key()<br/>array_intersect_uassoc()<br/>array_intersect_ukey()<br/>array_key_exists()<br/>array_keys()<br/>array_map()<br/>array_merge()<br/>array_merge_recursive()<br/>array_multisort()<br/>array_pad()<br/>array_pop()<br/>array_product()<br/>array_push()<br/>array_rand()<br/>array_reduce()<br/>array_replace()<br/>array_replace_recursive()<br/>array_reverse()<br/>array_search()<br/>array_shift()<br/>array_slice()<br/>array_splice()<br/>array_sum()<br/>array_udiff()<br/>array_udiff_assoc()<br/>array_udiff_uassoc()<br/>array_uintersect()<br/>array_uintersect_assoc()<br/>array_uintersect_uassoc()<br/>array_unique()<br/>array_unshift()<br/>array_values()<br/>array_walk()<br/>array_walk_recursive()<br/>arsort()<br/>asort()<br/>compact()<br/>count()<br/>current()<br/>each()<br/>end()<br/>extract()<br/>in_array()<br/>key()<br/>krsort()<br/>ksort()<br/>list()<br/>natcasesort()<br/>natsort()<br/>next()<br/>pos()</div> |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | <div>prev()<br/>range()<br/>reset()<br/>rsort()<br/>shuffle()<br/>sizeof()<br/>sort()<br/>uasort()<br/>uksort()<br/>usort()</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Calendar | <div>cal_days_in_month()<br/>cal_from_jd()<br/>cal_info()<br/>cal_to_jd()<br/>easter_date()<br/>easter_days()<br/>frenchtojd()<br/>gregoriantojd()<br/>jddayofweek()<br/>jdmonthname()<br/>jdtofrench()<br/>jdtogregorian()<br/>jdtojewish()<br/>jdtojulian()<br/>jdtounix()<br/>jewishtojd()<br/>juliantojd()<br/>unixtojd()</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Date     | <div>checkdate()<br/>date_add()<br/>date_create_from_format()<br/>date_create()<br/>date_date_set()<br/>date_default_timezone_get()<br/>date_default_timezone_set()<br/>date_diff()<br/>date_format()<br/>date_get_last_errors()<br/>date_interval_create_from_date_string()<br/>date_interval_format()<br/>date_isodate_set()<br/>date_modify()<br/>date_offset_get()<br/>date_parse_from_format()<br/>date_parse()<br/>date_sub()<br/>date_sun_info()<br/>date_sunrise()<br/>date_sunset()<br/>date_time_set()<br/>date_timestamp_get()<br/>date_timestamp_set()<br/>date_timezone_get()<br/>date_timezone_set()<br/>date()<br/>getdate()<br/>gettimeofday()<br/>gmdate()<br/>gmmktime()<br/>gmstrftime()<br/>idate()<br/>localtime()<br/>microtime()<br/>mktime()<br/>strftime()<br/>strtotime()<br/>strtotime()</div> |

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|             | <div>time()<br/>timezone_abbreviations_list()<br/>timezone_identifiers_list()<br/>timezone_location_get()<br/>timezone_name_from_abbrev()<br/>timezone_name_get()<br/>timezone_offset_get()<br/>timezone_open()<br/>timezone_transitions_get()<br/>timezone_version_get()</div>                                                                                                                                                                                                                                                                |
| Directory   | <div>chdir()<br/>chroot()<br/>closedir()<br/>dir()<br/>getcwd()<br/>opendir()<br/>readdir()<br/>rewinddir()<br/>scandir()</div>                                                                                                                                                                                                                                                                                                                                                                                                                |
| Error       | <div>debug_backtrace()<br/>debug_print_backtrace()<br/>error_clear_last()<br/>error_get_last()<br/>error_log()<br/>error_reporting()<br/>restore_error_handler()<br/>restore_exception_handler()<br/>set_error_handler()<br/>set_exception_handler()<br/>trigger_error()<br/>user_error()</div>                                                                                                                                                                                                                                                |
| File System | <div>basename()<br/>chgrp()<br/>chmod()<br/>chown()<br/>clearstatcache()<br/>copy()<br/>delete()<br/>dirname()<br/>disk_free_space()<br/>disk_total_space()<br/>diskfreespace()<br/>fclose()<br/>feof()<br/>fflush()<br/>fgetc()<br/>fgetcsv()<br/>fgets()<br/>fgetss()<br/>file()<br/>file_exists()<br/>file_get_contents()<br/>file_put_contents()<br/>fileatime()<br/>filectime()<br/>filegroup()<br/>fileinode()<br/>filemtime()<br/>fileowner()<br/>fileperms()<br/>filesize()<br/>filetype()<br/>flock()<br/>fnmatch()<br/>fopen()</div> |

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|        | <div>fpassthru()<br/>fputcsv()<br/>fputs()<br/>fread()<br/>fscanf()<br/>fseek()<br/>fstat()<br/>ftell()<br/>ftruncate()<br/>fwrite()<br/>glob()<br/>is_dir()<br/>is_executable()<br/>is_file()<br/>is_link()<br/>is_readable()<br/>is_uploaded_file()<br/>is_writable()<br/>is_writeable()<br/>lchgrp()<br/>lchown()<br/>link()<br/>linkinfo()<br/>lstat()<br/>mkdir()<br/>move_uploaded_file()<br/>parse_ini_file()<br/>parse_ini_string()<br/>pathinfo()<br/>pclose()<br/>popen()<br/>readfile()<br/>readlink()<br/>realpath()<br/>realpath_cache_get()<br/>realpath_cache_size()<br/>rename()<br/>rewind()<br/>rmdir()<br/>set_file_buffer()<br/>stat()<br/>symlink()<br/>tempnam()<br/>tmpfile()<br/>touch()<br/>umask()<br/>unlink()</div> |
| Filter | <div>filter_has_var()<br/>filter_id()<br/>filter_input()<br/>filter_input_array()<br/>filter_list()<br/>filter_var()<br/>filter_var_array()</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| FTP    | <div>ftp_alloc()<br/>ftp_cdup()<br/>ftp_chdir()<br/>ftp_chmod()<br/>ftp_close()<br/>ftp_connect()<br/>ftp_delete()<br/>ftp_exec()<br/>ftp_fget()<br/>ftp_fput()<br/>ftp_get()<br/>ftp_get_option()<br/>ftp_login()<br/>ftp_mdtm()</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|        | <div>ftp_mkdir()<br/>ftp_mlsd()<br/>ftp_nb_continue()<br/>ftp_nb_fget()<br/>ftp_nb_fput()<br/>ftp_nb_get()<br/>ftp_nb_put()<br/>ftp_nlist()<br/>ftp_pasv()<br/>ftp_put()<br/>ftp_pwd()<br/>ftp_quit()<br/>ftp_raw()<br/>ftp_rawlist()<br/>ftp_rename()<br/>ftp_rmdir()<br/>ftp_set_option()<br/>ftp_site()<br/>ftp_size()<br/>ftp_ssl_connect()<br/>ftp_systype()</div>                                                                                                                          |
| Libxml | <div>libxml_clear_errors()<br/>libxml_disable_entity_loader()<br/>libxml_get_errors()<br/>libxml_get_last_error()<br/>libxml_set_external_entity_loader()<br/>libxml_set_streams_context()<br/>libxml_use_internal_errors()</div>                                                                                                                                                                                                                                                                |
| Mail   | <div>ezmlm_hash()<br/>mail()</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Math   | <div>abs()<br/>acos()<br/>acosh()<br/>asin()<br/>asinh()<br/>atan()<br/>atan2()<br/>atanh()<br/>base_convert()<br/>bindec()<br/>ceil()<br/>cos()<br/>cosh()<br/>decbin()<br/>dechex()<br/>decoct()<br/>deg2rad()<br/>exp()<br/>expm1()<br/>floor()<br/>fmod()<br/>getrandmax()<br/>hexdec()<br/>hypot()<br/>intdiv()<br/>is_finite()<br/>is_infinite()<br/>is_nan()<br/>lcg_value()<br/>log()<br/>log10()<br/>log1p()<br/>max()<br/>min()<br/>mt_getrandmax()<br/>mt_rand()<br/>mt_srand()</div> |



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|        | <div>octdec()<br/>pi()<br/>pow()<br/>rad2deg()<br/>rand()<br/>round()<br/>sin()<br/>sinh()<br/>sqrt()<br/>srand()<br/>tan()<br/>tanh()</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Misc   | <div>connection_aborted()<br/>connection_status()<br/>connection_timeout()<br/>constant()<br/>define()<br/>defined()<br/>die()<br/>eval()<br/>exit()<br/>get_browser()<br/>__halt_compiler()<br/>highlight_file()<br/>highlight_string()<br/>hrtime()<br/>ignore_user_abort()<br/>pack()<br/>php_strip_whitespace()<br/>show_source()<br/>sleep()<br/>sys_getloadavg()<br/>time_nanosleep()<br/>time_sleep_until()<br/>uniqid()<br/>unpack()<br/>usleep()</div>                                                                                                                             |
| MySQLi | <div>affected_rows()<br/>autocommit()<br/>begin_transaction()<br/>change_user()<br/>character_set_name()<br/>close()<br/>commit()<br/>connect()<br/>connect_errno()<br/>connect_error()<br/>data_seek()<br/>debug()<br/>dump_debug_info()<br/>errno()<br/>error()<br/>error_list()<br/>fetch_all()<br/>fetch_array()<br/>fetch_assoc()<br/>fetch_field()<br/>fetch_field_direct()<br/>fetch_fields()<br/>fetch_lengths()<br/>fetch_object()<br/>fetch_row()<br/>field_count()<br/>affected_rows()<br/>autocommit()<br/>begin_transaction()<br/>change_user()<br/>character_set_name()</div> |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | <div>close()<br/>commit()<br/>connect()<br/>connect_errno()<br/>connect_error()<br/>data_seek()<br/>debug()<br/>dump_debug_info()<br/>errno()<br/>error()<br/>error_list()<br/>fetch_all()<br/>fetch_array()<br/>fetch_assoc()<br/>fetch_field()<br/>fetch_field_direct()<br/>fetch_fields()<br/>fetch_lengths()<br/>fetch_object()<br/>fetch_row()<br/>field_count()<br/>field_seek()<br/>get_charset()<br/>get_client_info()<br/>get_client_stats()<br/>get_client_version()<br/>get_connection_stats()<br/>get_host_info()<br/>get_proto_info()<br/>get_server_info()<br/>get_server_version()<br/>info()<br/>init()<br/>insert_id()<br/>kill()<br/>more_results()<br/>multi_query()<br/>next_result()<br/>options()<br/>ping()<br/>poll()<br/>prepare()<br/>query()<br/>real_connect()<br/>real_escape_string()<br/>real_query()<br/>reap_async_query()<br/>refresh()<br/>rollback()<br/>select_db()<br/>set_charset()<br/>set_local_infile_default()<br/>set_local_infile_handler()<br/>sqlstate()<br/>ssl_set()<br/>stat()<br/>stmt_init()<br/>store_result()<br/>thread_id()<br/>thread_safe()<br/>use_result()<br/>warning_count()</div> |
| Network | <div>checkdnsrr()<br/>closelog()<br/>define_syslog_variables()<br/>dns_check_record()<br/>dns_get_mx()</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | <div>dns_get_record()<br/>fsockopen()<br/>gethostbyaddr()<br/>gethostbyname()<br/>gethostbynameI()<br/>gethostname()<br/>getmxrr()<br/>getprotobyname()<br/>getprotobynumber()<br/>getservbyname()<br/>getservbyport()<br/>header_register_callback()<br/>header_remove()<br/>header()<br/>headers_list()<br/>headers_sent()<br/>http_response_code()<br/>inet_ntop()<br/>inet_pton()<br/>ip2long()<br/>long2ip()<br/>openlog()<br/>pfsockopen()<br/>setcookie()<br/>setrawcookie()<br/>socket_get_status()<br/>socket_set_blocking()<br/>socket_set_timeout()<br/>syslog()</div> |
| SimpleXML | <div>_construct()<br/>_toString()<br/>addAttribute()<br/>addChild()<br/>asXML()<br/>attributes()<br/>children()<br/>count()<br/>getDocNamespaces()<br/>getName()<br/>getNamespaces()<br/>registerXPathNamespace()<br/>saveXML()<br/>simplexml_import_dom()<br/>simplexml_load_file()<br/>simplexml_load_string()<br/>xpath()<br/>current()<br/>getChildren()<br/>hasChildren()<br/>key()<br/>next()<br/>rewind()<br/>valid()</div>                                                                                                                                                |
| Stream    | <div>set_socket_blocking()<br/>stream_bucket_prepend()<br/>stream_context_create()<br/>stream_context_get_default()<br/>stream_context_get_options()<br/>stream_context_get_params()<br/>stream_context_set_default()<br/>stream_context_set_options()<br/>stream_context_set_params()<br/>stream_copy_to_stream()<br/>stream_filter_append()<br/>stream_filter_prepend()<br/>stream_filter_register()<br/>stream_filter_remove()<br/>stream_get_contents()</div>                                                                                                                 |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | <div>stream_get_filters()<br/>stream_get_line()<br/>stream_get_meta_data()<br/>stream_get_transports()<br/>stream_get_wrappers()<br/>stream_is_local()<br/>stream_isatty()<br/>stream_notification_callback()<br/>stream_register_wrapper()<br/>stream_resolve_include_path()<br/>stream_select()<br/>stream_set_blocking()<br/>stream_set_chunk_size()<br/>stream_set_read_buffer()<br/>stream_set_timeout()<br/>stream_set_write_buffer()<br/>stream_socket_accept()<br/>stream_socket_client()<br/>stream_socket_enable_crypto()<br/>stream_socket_get_name()<br/>stream_socket_pair()<br/>stream_socket_recvfrom()<br/>stream_socket_sendto()<br/>stream_socket_server()<br/>stream_socket_shutdown()<br/>stream_supports_lock()<br/>stream_wrapper_register()<br/>stream_wrapper_restore()<br/>stream_wrapper_unregister()</div> |
| String | <div>addslashes()<br/>addslashes()<br/>bin2hex()<br/>chop()<br/>chr()<br/>chunk_split()<br/>convert_cyr_string()<br/>convert_uudecode()<br/>convert_uuencode()<br/>count_chars()<br/>crc32()<br/>crypt()<br/>echo()<br/>explode()<br/>fprintf()<br/>get_html_translation_table()<br/>hebrew()<br/>hebrevc()<br/>hex2bin()<br/>html_entity_decode()<br/>htmlentities()<br/>htmlspecialchars_decode()<br/>htmlspecialchars()<br/>implode()<br/>join()<br/>lcfirst()<br/>levenshtein()<br/>localeconv()<br/>ltrim()<br/>md5()<br/>md5_file()<br/>metaphone()<br/>money_format()<br/>nl_langinfo()<br/>nl2br() Inserts<br/>number_format()<br/>ord()<br/>parse_str()<br/>print()</div>                                                                                                                                                    |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <div>printf()<br/>quoted_printable_decode()<br/>quoted_printable_encode()<br/>quotemeta()<br/>rtrim()<br/>setlocale()<br/>sha1()<br/>sha1_file()<br/>similar_text()<br/>soundex()<br/>sprintf()<br/>sscanf()<br/>str_getcsv()<br/>str_ireplace()<br/>str_pad()<br/>str_repeat()<br/>str_replace()<br/>str_rot13()<br/>str_shuffle()<br/>str_split()<br/>str_word_count()<br/>strcasecmp()<br/>strchr()<br/>strcmp()<br/>strcoll()<br/>strcspn()<br/>strip_tags()<br/>stripclashes()<br/>stripslashes()<br/>stripos()<br/>stristr()<br/>strlen()<br/>strnatcasecmp()<br/>strnatcmp()<br/>strncasecmp()<br/>strncmp()<br/>strpbrk()<br/>strpos()<br/>strrchr()<br/>strrev()<br/>stripos()<br/>strrpos()<br/>strspn()<br/>strstr()<br/>strtok()<br/>strtolower()<br/>strtoupper()<br/>strtr()<br/>substr()<br/>substr_compare()<br/>substr_count()<br/>substr_replace()<br/>trim()<br/>ucfirst()<br/>ucwords()<br/>vfprintf()<br/>vprintf()<br/>vsprintf()<br/>wordwrap()</div> |
| XML Parser | <div>utf8_decode()<br/>utf8_encode()<br/>xml_error_string()<br/>xml_get_current_byte_index()<br/>xml_get_current_column_number()<br/>xml_get_current_line_number()<br/>xml_get_error_code()<br/>xml_parse()<br/>xml_parse_into_struct()</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | <div>xml_parser_create_ns()<br/>xml_parser_create()<br/>xml_parser_free()<br/>xml_parser_get_option()<br/>xml_parser_set_option()<br/>xml_set_character_data_handler()<br/>xml_set_default_handler()<br/>xml_set_element_handler()<br/>xml_set_external_entity_ref_handler()<br/>xml_set_notation_decl_handler()<br/>xml_set_object()<br/>xml_set_processing_instruction_handler()<br/>xml_set_start_namespace_decl_handler<br/>xml_set_unparsed_entity_decl_handler()</div> |
| Zip       | <div>zip_close()<br/>zip_entry_close()<br/>zip_entry_compressedsize()<br/>zip_entry_compressionmethod()<br/>zip_entry_filesize()<br/>zip_entry_name()<br/>zip_entry_open()<br/>zip_entry_read()<br/>zip_open()<br/>zip_read()</div>                                                                                                                                                                                                                                          |
| Timezones | <div>Africa<br/><br/>America<br/><br/>Antarctica<br/><br/>Arctic<br/><br/>Asia<br/><br/>Atlantic<br/><br/>Australia<br/><br/>Europe<br/><br/>Indian<br/><br/>Pacific</div>                                                                                                                                                                                                                                                                                                   |

### 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, commonly known as "**regex**" or "**RegExp**", are a specially formatted text strings used to find patterns in text. Regular expressions are one of the most powerful tools available today for effective and efficient text processing and manipulations. For example, it can be used to verify whether the format of data i.e. name, email, phone number, etc. entered by the user was correct or not, find or replace matching string within text content, and so on.

Regular expression syntax includes the use of special characters (do not confuse with the HTML special characters). The characters that are given special meaning within a regular expression, are: . \* ? + [ ] ( ) { } ^ \$ | \. You will need to backslash these characters whenever you want to use them literally. For example, if you want to match ".", you'd have to write \. All other characters automatically assume their literal meanings.

```
<?php $pattern = "/ca[kf]e/"; $text = "He was eating lasagna in the restaurant.";
if(preg_match($pattern, $text)){ echo "Match found!"; } else{ echo "Match not found."; } ?>
```

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
$str1 = 'The quick brown fox';
echo preg_replace('/\W\w+\s*(\W*)$/','',$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: abcdeddfdf 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.

- **E\_WARNING** :- Non-fatal run-time errors. Execution of the script is not terminated
- **E\_NOTICE** :- Run-time notices. The script found something that might be an error, but could also happen when running a script normally
- **E\_USER\_ERROR** :- user-generated error. This is like an **E\_ERROR** set by the programmer using the PHP function `trigger_error()` Fatal
- **E\_USER\_WARNING** :- user-generated warning. This is like an **E\_WARNING** set by the programmer using the PHP function `trigger_error()` Non-fatal
- **E\_USER\_NOTICE** :- User-generated notice. This is like an **E\_NOTICE** set by the programmer using the PHP function `trigger_error()`
- **E\_ALL** :- All errors and warnings (**E\_STRICT** became a part of **E\_ALL** in PHP 5.4)
- **1. Notices:**  
These are small, non-critical errors that PHP encounters while executing a script - for example, accessing a variable that has not yet been defined. By default, such errors are not displayed to the user at all - although the default behavior can be changed.
- **2. Warnings:**  
Warnings are more severe errors like attempting to include() a file which does not exist. By default, these errors are displayed to the user, but they do not result in script termination.



- **3. Fatal errors:**

These are critical errors - for example, instantiating an object of a non-existent class, or calling a non-existent function. These errors cause the immediate termination of the script, and PHP's default behavior is to display them to the user when they take place