

ACTIVITY ANSWER SHEET

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Section:	3R1

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) { <i>code to be executed;</i> }</pre>
9. break statement	<pre>break; break <i>labelname</i>;</pre>
10. continue statement	<pre>continue; continue <i>labelname</i>;</pre>
11. try...catch	<pre>try { <i>// Block of code to try</i> } catch(Exception e) { <i>// Block of code to handle errors</i> }</pre>

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
$var_name1='1';
$var_name2=1;
if (is_int($var_name1))
{
    echo "A number"."\\n"
;
}
else
{
    echo "Not a number"."\\n"
;
}
if (is_int($var_name2))
{
    echo "A number";
}
else
{
    echo "Not 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){
        if($number>=0){
            echo "Positive"." ";
        }
        else{
            echo "Negative"." ";
        }
        echo " and Even";
    }
    else{
```

```

        if($number>0){
            echo "Positive"." ";
        }
        else{
            echo "Negative"." ";
        }
        echo "Odd";
    }
}

```

```

// Driver Code
$number = 0;
check($number)
?>

```

```

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

```

```

// Driver Code
$number = -1;
check($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($string)
{
    if ($string == strrev($string))
        return 1;
    else
        return 0;
}

```

```

// Driver Code
$original = 'anna';
if (Palindrome($original)){
    echo "Palindrome";
}
else {
    echo "Not a Palindrome";
}

```

```

?>

```

```

<?php
function Palindrome($string)
{
    if ($string == strrev($string))
        return 1;
    else
        return 0;
}

```

```

}

// Driver Code
$original = 'Bogart';
if (Palindrome($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";
?>

```

- 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;
$count = 1;
for ($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.

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Array | <p>The array functions allow you to access and manipulate arrays. Simple and multi-dimensional arrays are supported.</p> <p><a href="#">array()</a> - Creates an array</p> <p><a href="#">array_change_key_case()</a> - Changes all keys in an array to lowercase or uppercase</p> <p><a href="#">array_chunk()</a> - Splits an array into chunks of arrays</p> <p><a href="#">array_column()</a> - Returns the values from a single column in the input array</p> <p><a href="#">array_combine()</a> -Creates an array by using the elements from one "keys" array and one "values" array</p> <p><a href="#">array_count_values()</a> -Counts all the values of an array</p> <p><a href="#">array_diff()</a> - Compare arrays, and returns the differences (compare values only)</p> <p><a href="#">array_diff_assoc()</a> -Compare arrays, and returns the differences (compare keys and values)</p> <p><a href="#">array_diff_key()</a> - Compare arrays, and returns the differences (compare keys only)</p> <p><a href="#">array_diff_uassoc()</a> - Compare arrays, and returns the differences (compare keys and values, using a user-defined key comparison function)</p> <p><a href="#">array_diff_ukey()</a> -Compare arrays, and returns the differences (compare keys only, using a user-defined key comparison function)</p> <p><a href="#">array_fill()</a> -Fills an array with values</p> <p><a href="#">array_fill_keys()</a> -Fills an array with values, specifying keys</p> <p><a href="#">array_filter()</a> -Filters the values of an array using a callback function</p> <p><a href="#">array_flip()</a> -Flips/Exchanges all keys with their associated values in an array</p> <p><a href="#">array_intersect()</a> -Compare arrays, and returns the matches (compare values only)</p> <p><a href="#">array_intersect_assoc()</a> -Compare arrays and returns the matches (compare keys and values)</p> <p><a href="#">array_intersect_key()</a> -Compare arrays, and returns the matches (compare keys only)</p> <p><a href="#">array_intersect_uassoc()</a> -Compare arrays, and returns the matches (compare keys and values, using a user-defined key comparison function)</p> <p><a href="#">array_intersect_ukey()</a> -Compare arrays, and returns the matches (compare keys only, using a user-defined key comparison function)</p> <p><a href="#">array_key_exists()</a> -Checks if the specified key exists in the array</p> <p><a href="#">array_keys()</a> -Returns all the keys of an array</p> <p><a href="#">array_map()</a> -Sends each value of an array to a user-made function, which returns new values</p> <p><a href="#">array_merge()</a> -Merges one or more arrays into one array</p> <p><a href="#">array_merge_recursive()</a> -Merges one or more arrays into one array recursively</p> <p><a href="#">array_multisort()</a> -Sorts multiple or multi-dimensional arrays</p> <p><a href="#">array_pad()</a> -Inserts a specified number of items, with a specified value, to an array</p> <p><a href="#">array_pop()</a> -Deletes the last element of an array</p> <p><a href="#">array_product()</a> -Calculates the product of the values in an array</p> <p><a href="#">array_push()</a> -Inserts one or more elements to the end of an array</p> <p><a href="#">array_rand()</a> -Returns one or more random keys from an array</p> <p><a href="#">array_reduce()</a> -Returns an array as a string, using a user-defined function</p> <p><a href="#">array_replace()</a> -Replaces the values of the first array with the values from following arrays</p> <p><a href="#">array_replace_recursive()</a> -Replaces the values of the first array with the values from following arrays recursively</p> <p><a href="#">array_reverse()</a> -Returns an array in the reverse order</p> <p><a href="#">array_search()</a> -Searches an array for a given value and returns the key</p> <p><a href="#">array_shift()</a> -Removes the first element from an array, and returns the value of the removed element</p> |
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|  | <p><a href="#"><u>array_slice()</u></a>-Returns selected parts of an array</p> <p><a href="#"><u>array_splice()</u></a>-Removes and replaces specified elements of an array</p> <p><a href="#"><u>array_sum()</u></a>-Returns the sum of the values in an array</p> <p><a href="#"><u>array_udiff()</u></a>-Compare arrays, and returns the differences (compare values only, using a user-defined key comparison function)</p> <p><a href="#"><u>array_udiff_assoc()</u></a>-Compare arrays, and returns the differences (compare keys and values, using a built-in function to compare the keys and a user-defined function to compare the values)</p> <p><a href="#"><u>array_udiff_uassoc()</u></a>-Compare arrays, and returns the differences (compare keys and values, using two user-defined key comparison functions)</p> <p><a href="#"><u>array_uintersect()</u></a>-Compare arrays, and returns the matches (compare values only, using a user-defined key comparison function)</p> <p><a href="#"><u>array_uintersect_assoc()</u></a>-Compare arrays, and returns the matches (compare keys and values, using a built-in function to compare the keys and a user-defined function to compare the values)</p> <p><a href="#"><u>array_uintersect_uassoc()</u></a>-Compare arrays, and returns the matches (compare keys and values, using two user-defined key comparison functions)</p> <p><a href="#"><u>array_unique()</u></a>-Removes duplicate values from an array</p> <p><a href="#"><u>array_unshift()</u></a>-Adds one or more elements to the beginning of an array</p> <p><a href="#"><u>array_values()</u></a>-Returns all the values of an array</p> <p><a href="#"><u>array_walk()</u></a>-Applies a user function to every member of an array</p> <p><a href="#"><u>array_walk_recursive()</u></a>-Applies a user function recursively to every member of an array</p> <p><a href="#"><u>arsort()</u></a>-Sorts an associative array in descending order, according to the value</p> <p><a href="#"><u>asort()</u></a>-Sorts an associative array in ascending order, according to the value</p> <p><a href="#"><u>compact()</u></a>-Create array containing variables and their values</p> <p><a href="#"><u>count()</u></a>-Returns the number of elements in an array</p> <p><a href="#"><u>current()</u></a>-Returns the current element in an array</p> <p><a href="#"><u>each()</u></a>-<b>Deprecated from PHP 7.2.</b> Returns the current key and value pair from an array</p> <p><a href="#"><u>end()</u></a>-Sets the internal pointer of an array to its last element</p> <p><a href="#"><u>extract()</u></a>-Imports variables into the current symbol table from an array</p> <p><a href="#"><u>in_array()</u></a>-Checks if a specified value exists in an array</p> <p><a href="#"><u>key()</u></a>-Fetches a key from an array</p> <p><a href="#"><u>krsort()</u></a>-Sorts an associative array in descending order, according to the key</p> <p><a href="#"><u>ksort()</u></a>-Sorts an associative array in ascending order, according to the key</p> <p><a href="#"><u>list()</u></a>-Assigns variables as if they were an array</p> <p><a href="#"><u>natcasesort()</u></a>-Sorts an array using a case insensitive "natural order" algorithm</p> <p><a href="#"><u>natsort()</u></a>-Sorts an array using a "natural order" algorithm</p> <p><a href="#"><u>next()</u></a>-Advance the internal array pointer of an array</p> <p><a href="#"><u>pos()</u></a>-Alias of <a href="#"><u>current()</u></a></p> <p><a href="#"><u>prev()</u></a>-Rewinds the internal array pointer</p> <p><a href="#"><u>range()</u></a>-Creates an array containing a range of elements</p> <p><a href="#"><u>reset()</u></a>-Sets the internal pointer of an array to its first element</p> <p><a href="#"><u>rsort()</u></a>-Sorts an indexed array in descending order</p> <p><a href="#"><u>shuffle()</u></a>-Shuffles an array</p> <p><a href="#"><u>sizeof()</u></a>-Alias of <a href="#"><u>count()</u></a></p> <p><a href="#"><u>sort()</u></a>-Sorts an indexed array in ascending order</p> <p><a href="#"><u>uasort()</u></a>-Sorts an array by values using a user-defined comparison function</p> <p><a href="#"><u>uksort()</u></a>-Sorts an array by keys using a user-defined comparison function</p> <p><a href="#"><u>usort()</u></a>-Sorts an array using a user-defined comparison function</p> |
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| Calendar | <p>The calendar extension contains functions that simplifies converting between different calendar formats.</p> <p><b>It is based on the Julian Day Count, which is a count of days starting from January 1st, 4713 B.C.</b></p> <p><b>Note:</b> To convert between calendar formats, you must first convert to Julian Day Count, then to the calendar of your choice.</p> <p><b>Note:</b> The Julian Day Count is not the same as the Julian Calendar!</p> <p><a href="#">cal_days_in_month()</a> - Returns the number of days in a month for a specified year and calendar</p> <p><a href="#">cal_from_jd()</a> - Converts a Julian Day Count into a date of a specified calendar</p> <p><a href="#">cal_info()</a> - Returns information about a specified calendar</p> <p><a href="#">cal_to_jd()</a> - Converts a date in a specified calendar to Julian Day Count</p> <p><a href="#">easter_date()</a> - Returns the Unix timestamp for midnight on Easter of a specified year</p> <p><a href="#">easter_days()</a> - Returns the number of days after March 21, that the Easter Day is in a specified year</p> <p><a href="#">frenchtojd()</a> - Converts a French Republican date to a Julian Day Count</p> <p><a href="#">gregoriantojd()</a> - Converts a Gregorian date to a Julian Day Count</p> <p><a href="#">jddayofweek()</a> - Returns the day of the week</p> <p><a href="#">jdmonthname()</a> - Returns a month name</p> <p><a href="#">jdtofrench()</a> - Converts a Julian Day Count to a French Republican date</p> <p><a href="#">jdtogregorian()</a> - Converts a Julian Day Count to a Gregorian date</p> <p><a href="#">jdtojewish()</a> - Converts a Julian Day Count to a Jewish date</p> <p><a href="#">jdtojulian()</a> - Converts a Julian Day Count to a Julian date</p> <p><a href="#">jdtounix()</a> - Converts Julian Day Count to Unix timestamp</p> <p><a href="#">jewishtojd()</a> - Converts a Jewish date to a Julian Day Count</p> <p><a href="#">juliantojd()</a> - Converts a Julian date to a Julian Day Count</p> <p><a href="#">unixtojd()</a> - Converts Unix timestamp to Julian Day Count</p> |
| Date     | <p>The date/time functions allow you to get the date and time from the server where your PHP script runs. You can then use the date/time functions to format the date and time in several ways.</p> <p><b>Note:</b> These functions depend on the locale settings of your server. Remember to take daylight saving time and leap years into consideration when working with these functions.</p> <p><a href="#">checkdate()</a> - Validates a Gregorian date</p> <p><a href="#">date_add()</a> - Adds days, months, years, hours, minutes, and seconds to a date</p> <p><a href="#">date_create_from_format()</a> - Returns a new DateTime object formatted according to a specified format</p> <p><a href="#">date_create()</a> - Returns a new DateTime object</p> <p><a href="#">date_date_set()</a> - Sets a new date</p> <p><a href="#">date_default_timezone_get()</a> - Returns the default timezone used by all date/time functions</p> <p><a href="#">date_default_timezone_set()</a> - Sets the default timezone used by all date/time functions</p> <p><a href="#">date_diff()</a> - Returns the difference between two dates</p> <p><a href="#">date_format()</a> - Returns a date formatted according to a specified format</p> <p><a href="#">date_get_last_errors()</a> - Returns the warnings/errors found in a date string</p> <p><a href="#">date_interval_create_from_date_string()</a> - Sets up a DateInterval from the relative parts of the string</p> <p><a href="#">date_interval_format()</a> - Formats the interval</p> <p><a href="#">date_isodate_set()</a> - Sets the ISO date</p> <p><a href="#">date_modify()</a> - Modifies the timestamp</p> <p><a href="#">date_offset_get()</a> - Returns the timezone offset</p> <p><a href="#">date_parse_from_format()</a> - Returns an associative array with detailed info about a specified date, according to a specified format</p> <p><a href="#">date_parse()</a> - Returns an associative array with detailed info</p>                                                                                                                                          |

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|           | <p>about a specified date</p> <p><a href="#">date_sub()</a>-Subtracts days, months, years, hours, minutes, and seconds from a date</p> <p><a href="#">date_sun_info()</a>-Returns an array containing info about sunset/sunrise and twilight begin/end, for a specified day and location</p> <p><a href="#">date_sunrise()</a>-Returns the sunrise time for a specified day and location</p> <p><a href="#">date_sunset()</a>-Returns the sunset time for a specified day and location</p> <p><a href="#">date_time_set()</a>-Sets the time</p> <p><a href="#">date_timestamp_get()</a>-Returns the Unix timestamp</p> <p><a href="#">date_timestamp_set()</a>-Sets the date and time based on a Unix timestamp</p> <p><a href="#">date_timezone_get()</a>-Returns the time zone of the given DateTime object</p> <p><a href="#">date_timezone_set()</a>-Sets the time zone for the DateTime object</p> <p><a href="#">date()</a>-Formats a local date and time</p> <p><a href="#">getdate()</a>-Returns date/time information of a timestamp or the current local date/time</p> <p><a href="#">gettimeofday()</a>-Returns the current time</p> <p><a href="#">gmdate()</a>-Formats a GMT/UTC date and time</p> <p><a href="#">gmmktime()</a>-Returns the Unix timestamp for a GMT date</p> <p><a href="#">gmstrftime()</a>-Formats a GMT/UTC date and time according to locale settings</p> <p><a href="#">idate()</a>-Formats a local time/date as integer</p> <p><a href="#">localtime()</a>-Returns the local time</p> <p><a href="#">microtime()</a>-Returns the current Unix timestamp with microseconds</p> <p><a href="#">mktime()</a>-Returns the Unix timestamp for a date</p> <p><a href="#">strftime()</a>-Formats a local time and/or date according to locale settings</p> <p><a href="#">strtotime()</a>-Parses a time/date generated with strftime()</p> <p><a href="#">strtotime()</a>-Parses an English textual datetime into a Unix timestamp</p> <p><a href="#">time()</a>-Returns the current time as a Unix timestamp</p> <p><a href="#">timezone_abbreviations_list()</a>-Returns an associative array containing dst, offset, and the timezone name</p> <p><a href="#">timezone_identifiers_list()</a>-Returns an indexed array with all timezone identifiers</p> <p><a href="#">timezone_location_get()</a>-Returns location information for a specified timezone</p> <p><a href="#">timezone_name_from_abbr()</a>-Returns the timezone name from abbreviation</p> <p><a href="#">timezone_name_get()</a>-Returns the name of the timezone</p> <p><a href="#">timezone_offset_get()</a>-Returns the timezone offset from GMT</p> <p><a href="#">timezone_open()</a>-Creates new DateTimeZone object</p> <p><a href="#">timezone_transitions_get()</a>-Returns all transitions for the timezone</p> <p><a href="#">timezone_version_get()</a>-Returns the version of the timezonedb</p> |
| Directory | <p>The directory functions allow you to retrieve information about directories and their contents.</p> <p><a href="#">chdir()</a> -Changes the current directory</p> <p><a href="#">chroot()</a>-Changes the root directory</p> <p><a href="#">closedir()</a>-Closes a directory handle</p> <p><a href="#">dir()</a>-Returns an instance of the Directory class</p> <p><a href="#">getcwd()</a>-Returns the current working directory</p> <p><a href="#">opendir()</a>-Opens a directory handle</p> <p><a href="#">readdir()</a>-Returns an entry from a directory handle</p> <p><a href="#">rewinddir()</a>-Resets a directory handle</p> <p><a href="#">scandir()</a>-Returns an array of files and directories of a specified directory</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Error     | <p>The error functions are used to deal with error handling and logging.</p> <p>The error functions allow us to define own error handling</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



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|             | <p>rules, and modify the way the errors can be logged.</p> <p>The logging functions allow us to send messages directly to other machines, emails, or system logs.</p> <p>The error reporting functions allow us to customize what level and kind of error feedback is given.</p> <p><a href="#">debug_backtrace()</a>-Generates a backtrace</p> <p><a href="#">debug_print_backtrace()</a>-Prints a backtrace</p> <p><a href="#">error_clear_last()</a>-Clears the last error</p> <p><a href="#">error_get_last()</a>-Returns the last error that occurred</p> <p><a href="#">error_log()</a>-Sends an error message to a log, to a file, or to a mail account</p> <p><a href="#">error_reporting()</a>-Specifies which errors are reported</p> <p><a href="#">restore_error_handler()</a>-Restores the previous error handler</p> <p><a href="#">restore_exception_handler()</a>-Restores the previous exception handler</p> <p><a href="#">set_error_handler()</a>-Sets a user-defined error handler function</p> <p><a href="#">set_exception_handler()</a>-Sets a user-defined exception handler function</p> <p><a href="#">trigger_error()</a>-Creates a user-level error message</p> <p><a href="#">user_error()</a>-Alias of <a href="#">trigger_error()</a></p>                                                                                                                                                                                                                                                                                                                                                                                                 |
| File System | <p>The filesystem functions allow you to access and manipulate the filesystem.</p> <p><a href="#">basename()</a></p> <p><a href="#">chgrp()</a></p> <p><a href="#">chchown(mod())</a></p> <p><a href="#">clearstatcache()</a></p> <p><a href="#">copy()</a></p> <p><a href="#">delete()</a></p> <p><a href="#">dirname()</a></p> <p><a href="#">disk_free_space()</a></p> <p><a href="#">disk_total_space()</a></p> <p><a href="#">diskfreespace()</a></p> <p><a href="#">fclose()</a></p> <p><a href="#">feof()</a></p> <p><a href="#">fflush()</a></p> <p><a href="#">fgetc()</a></p> <p><a href="#">fgetcsv()</a></p> <p><a href="#">fgets()</a></p> <p><a href="#">fgetss()</a></p> <p><a href="#">file()</a></p> <p><a href="#">file_exists()</a></p> <p><a href="#">file_get_contents()</a></p> <p><a href="#">file_put_contents()</a></p> <p><a href="#">fileatime()</a></p> <p><a href="#">filectime()</a></p> <p><a href="#">filegroup()</a></p> <p><a href="#">fileinode()</a></p> <p><a href="#">filemtime()</a></p> <p><a href="#">fileowner()</a></p> <p><a href="#">fileperms()</a></p> <p><a href="#">filesize()</a></p> <p><a href="#">filetype()</a></p> <p><a href="#">flock()</a></p> <p><a href="#">fnmatch()</a></p> <p><a href="#">fopen()</a></p> <p><a href="#">fpassthru()</a></p> <p><a href="#">fputcsv()</a></p> <p><a href="#">fputs()</a></p> <p><a href="#">fread()</a></p> <p><a href="#">fscanf()</a></p> <p><a href="#">fseek()</a></p> <p><a href="#">fstat()</a></p> <p><a href="#">ftell()</a></p> <p><a href="#">ftruncate()</a></p> <p><a href="#">fwrite()</a></p> <p><a href="#">glob()</a></p> <p><a href="#">is_dir()</a></p> |



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|        | <p><a href="#">ftp_fget()</a> - Downloads a file from the FTP server and saves it into an open local file</p> <p><a href="#">ftp_fput()</a> - Uploads from an open file and saves it to a file on the FTP server</p> <p><a href="#">ftp_get()</a> - Downloads a file from the FTP server</p> <p><a href="#">ftp_get_option()</a> - Returns runtime options of the FTP connection</p> <p><a href="#">ftp_login()</a> - Logs in to the FTP connection</p> <p><a href="#">ftp_mdtm()</a> - Returns the last modified time of a specified file</p> <p><a href="#">ftp_mkdir()</a> - Creates a new directory on the FTP server</p> <p><a href="#">ftp_mlsd()</a> - Returns the list of files in the specified directory</p> <p><a href="#">ftp_nb_continue()</a> - Continues retrieving/sending a file (non-blocking)</p> <p><a href="#">ftp_nb_fget()</a> - Downloads a file from the FTP server and saves it into an open file (non-blocking)</p> <p><a href="#">ftp_nb_fput()</a> - Uploads from an open file and saves it to a file on the FTP server (non-blocking)</p> <p><a href="#">ftp_nb_get()</a> - Downloads a file from the FTP server (non-blocking)</p> <p><a href="#">ftp_nb_put()</a> - Uploads a file to the FTP server (non-blocking)</p> <p><a href="#">ftp_nlist()</a> - Returns a list of files in the specified directory on the FTP server</p> <p><a href="#">ftp_pasv()</a> - Turns passive mode on or off</p> <p><a href="#">ftp_put()</a> - Uploads a file to the FTP server</p> <p><a href="#">ftp_pwd()</a> - Returns the current directory name</p> <p><a href="#">ftp_quit()</a> - Alias of <a href="#">ftp_close()</a></p> <p><a href="#">ftp_raw()</a> - Sends a raw command to the FTP server</p> <p><a href="#">ftp_rawlist()</a> - Returns a list of files with file information from a specified directory</p> <p><a href="#">ftp_rename()</a> - Renames a file or directory on the FTP server</p> <p><a href="#">ftp_rmdir()</a> - Deletes an empty directory on the FTP server</p> <p><a href="#">ftp_set_option()</a> - Sets runtime options for the FTP connection</p> <p><a href="#">ftp_site()</a> - Sends an FTP SITE command to the FTP server</p> <p><a href="#">ftp_size()</a> - Returns the size of the specified file</p> <p><a href="#">ftp_ssl_connect()</a> - Opens a secure SSL-FTP connection</p> <p><a href="#">ftp_systype()</a> - Returns the system type identifier of the FTP server</p> |
| Libxml | <p>The libxml functions and constants are used together with SimpleXML, XSLT and DOM functions.</p> <p><a href="#">libxml_clear_errors()</a> - Clears the libxml error buffer</p> <p><a href="#">libxml_disable_entity_loader()</a> - Enables the ability to load external entities</p> <p><a href="#">libxml_get_errors()</a> - Gets the errors from the the libxml error buffer</p> <p><a href="#">libxml_get_last_error()</a> - Gets the last error from the the libxml error buffer</p> <p><a href="#">libxml_set_external_entity_loader()</a> - Changes the default external entity loader</p> <p><a href="#">libxml_set_streams_context()</a> - Sets the streams context for the next libxml document load or write</p> <p><a href="#">libxml_use_internal_errors()</a> - Disables the standard libxml errors and enables user error handling</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Mail   | <p>The mail() function allows you to send emails directly from a script.</p> <p><a href="#">ezmlm_hash()</a> - Calculates the hash value needed by EZMLM</p> <p><a href="#">mail()</a> - Allows you to send emails directly from a script</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Math   | <p>The math functions can handle values within the range of integer and float types.</p> <p><a href="#">abs()</a> - Returns the absolute (positive) value of a number</p> <p><a href="#">acos()</a> - Returns the arc cosine of a number</p> <p><a href="#">acosh()</a> - Returns the inverse hyperbolic cosine of a number</p> <p><a href="#">asin()</a> - Returns the arc sine of a number</p> <p><a href="#">asinh()</a> - Returns the inverse hyperbolic sine of a number</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|      | <p><a href="#">atan()</a> - Returns the arc tangent of a number in radians</p> <p><a href="#">atan2()</a> - Returns the arc tangent of two variables x and y</p> <p><a href="#">atanh()</a> - Returns the inverse hyperbolic tangent of a number</p> <p><a href="#">base_convert()</a> - Converts a number from one number base to another</p> <p><a href="#">bindec()</a> - Converts a binary number to a decimal number</p> <p><a href="#">ceil()</a> - Rounds a number up to the nearest integer</p> <p><a href="#">cos()</a> - Returns the cosine of a number</p> <p><a href="#">cosh()</a> - Returns the hyperbolic cosine of a number</p> <p><a href="#">decbin()</a> - Converts a decimal number to a binary number</p> <p><a href="#">dechex()</a> - Converts a decimal number to a hexadecimal number</p> <p><a href="#">decoct()</a> - Converts a decimal number to an octal number</p> <p><a href="#">deg2rad()</a> - Converts a degree value to a radian value</p> <p><a href="#">exp()</a> - Calculates the exponent of e</p> <p><a href="#">expm1()</a> - Returns exp(x) - 1</p> <p><a href="#">floor()</a> - Rounds a number down to the nearest integer</p> <p><a href="#">fmod()</a> - Returns the remainder of x/y</p> <p><a href="#">getrandmax()</a> - Returns the largest possible value returned by rand()</p> <p><a href="#">hexdec()</a> - Converts a hexadecimal number to a decimal number</p> <p><a href="#">hypot()</a> - Calculates the hypotenuse of a right-angle triangle</p> <p><a href="#">intdiv()</a> - Performs integer division</p> <p><a href="#">is_finite()</a> - Checks whether a value is finite or not</p> <p><a href="#">is_infinite()</a> - Checks whether a value is infinite or not</p> <p><a href="#">is_nan()</a> - Checks whether a value is 'not-a-number'</p> <p><a href="#">lcg_value()</a> - Returns a pseudo random number in a range between 0 and 1</p> <p><a href="#">log()</a> - Returns the natural logarithm of a number</p> <p><a href="#">log10()</a> - Returns the base-10 logarithm of a number</p> <p><a href="#">log1p()</a> - Returns log(1+number)</p> <p><a href="#">max()</a> - Returns the highest value in an array, or the highest value of several specified values</p> <p><a href="#">min()</a> - Returns the lowest value in an array, or the lowest value of several specified values</p> <p><a href="#">mt_getrandmax()</a> - Returns the largest possible value returned by mt_rand()</p> <p><a href="#">mt_rand()</a> - Generates a random integer using Mersenne Twister algorithm</p> <p><a href="#">mt_srand()</a> - Seeds the Mersenne Twister random number generator</p> <p><a href="#">octdec()</a> - Converts an octal number to a decimal number</p> <p><a href="#">pi()</a> - Returns the value of PI</p> <p><a href="#">pow()</a> - Returns x raised to the power of y</p> <p><a href="#">rad2deg()</a> - Converts a radian value to a degree value</p> <p><a href="#">rand()</a> - Generates a random integer</p> <p><a href="#">round()</a> - Rounds a floating-point number</p> <p><a href="#">sin()</a> - Returns the sine of a number</p> <p><a href="#">sinh()</a> - Returns the hyperbolic sine of a number</p> <p><a href="#">sqrt()</a> - Returns the square root of a number</p> <p><a href="#">srand()</a> - Seeds the random number generator</p> <p><a href="#">tan()</a> - Returns the tangent of a number</p> <p><a href="#">tanh()</a> - Returns the hyperbolic tangent of a number</p> |
| Misc | <p>The misc. functions were only placed here because none of the other categories seemed to fit.</p> <p><a href="#">connection_aborted()</a> - Checks whether the client has disconnected</p> <p><a href="#">connection_status()</a> - Returns the current connection status</p> <p><a href="#">connection_timeout()</a> - <b>Deprecated from PHP 4.0.5.</b> Checks whether the script has timed out</p> <p><a href="#">constant()</a> - Returns the value of a constant</p> <p><a href="#">define()</a> - Defines a constant</p> <p><a href="#">defined()</a> - Checks whether a constant exists</p> <p><a href="#">die()</a> - Alias of <a href="#">exit()</a></p> <p><a href="#">eval()</a> - Evaluates a string as PHP code</p> <p><a href="#">exit()</a> - Prints a message and exits the current script</p> <p><a href="#">get_browser()</a> - Returns the capabilities of the user's browser</p> <p><a href="#">halt_compiler()</a> - Halts the compiler execution</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|        | <p><a href="#">highlight_file()</a> - Outputs a file with the PHP syntax highlighted</p> <p><a href="#">highlight_string()</a> - Outputs a string with the PHP syntax highlighted</p> <p><a href="#">hrtime()</a> - Returns the system's high resolution time</p> <p><a href="#">ignore_user_abort()</a> - Sets whether a remote client can abort the running of a script</p> <p><a href="#">pack()</a> - Packs data into a binary string</p> <p><a href="#">php_strip_whitespace()</a> - Returns the source code of a file with PHP comments and whitespace removed</p> <p><a href="#">show_source()</a> - Alias of <a href="#">highlight_file()</a></p> <p><a href="#">sleep()</a> - Delays code execution for a number of seconds</p> <p><a href="#">sys_getloadavg()</a> - Returns the system load average</p> <p><a href="#">time_nanosleep()</a> - Delays code execution for a number of seconds and nanoseconds</p> <p><a href="#">time_sleep_until()</a> - Makes a script sleep until the specified time</p> <p><a href="#">uniqid()</a> - Generates a unique ID</p> <p><a href="#">unpack()</a> - Unpacks data from a binary string</p> <p><a href="#">usleep()</a> - Delays code execution for a number of microseconds</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| MySQLi | <p>The MySQLi functions allows you to access MySQL database servers.</p> <p><b>Note:</b> The MySQLi extension is designed to work with MySQL version 4.1.13 or newer.</p> <p><a href="#">affected_rows()</a> - Returns the number of affected rows in the previous MySQL operation</p> <p><a href="#">autocommit()</a> - Turns on or off auto-committing database modifications</p> <p><a href="#">begin_transaction()</a> - Starts a transaction</p> <p><a href="#">change_user()</a> - Changes the user of the specified database connection</p> <p><a href="#">character_set_name()</a> - Returns the default character set for the database connection</p> <p><a href="#">close()</a> - Closes a previously opened database connection</p> <p><a href="#">commit()</a> - Commits the current transaction</p> <p><a href="#">connect()</a> - Opens a new connection to the MySQL server</p> <p><a href="#">connect_errno()</a> - Returns the error code from the last connection error</p> <p><a href="#">connect_error()</a> - Returns the error description from the last connection error</p> <p><a href="#">data_seek()</a> - Adjusts the result pointer to an arbitrary row in the result-set</p> <p><a href="#">debug()</a> - Performs debugging operations</p> <p><a href="#">dump_debug_info()</a> - Dumps debugging info into the log</p> <p><a href="#">errno()</a> - Returns the last error code for the most recent function call</p> <p><a href="#">error()</a> - Returns the last error description for the most recent function call</p> <p><a href="#">error_list()</a> - Returns a list of errors for the most recent function call</p> <p><a href="#">fetch_all()</a> - Fetches all result rows as an associative array, a numeric array, or both</p> <p><a href="#">fetch_array()</a> - Fetches a result row as an associative, a numeric array, or both</p> <p><a href="#">fetch_assoc()</a> - Fetches a result row as an associative array</p> <p><a href="#">fetch_field()</a> - Returns the next field in the result-set, as an object</p> <p><a href="#">fetch_field_direct()</a> - Returns meta-data for a single field in the result-set, as an object</p> <p><a href="#">fetch_fields()</a> - Returns an array of objects that</p> |

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|  | <p>represent the fields in a result-set</p> <p><a href="#">fetch_lengths()</a> - Returns the lengths of the columns of the current row in the result-set</p> <p><a href="#">fetch_object()</a> - Returns the current row of a result-set, as an object</p> <p><a href="#">fetch_row()</a> - Fetches one row from a result-set and returns it as an enumerated array</p> <p><a href="#">field_count()</a> - Returns the number of columns for the most recent query</p> <p><a href="#">field_seek()</a> - Sets the field cursor to the given field offset</p> <p><a href="#">get_charset()</a> - Returns a character set object</p> <p><a href="#">get_client_info()</a> - Returns the MySQL client library version</p> <p><a href="#">get_client_stats()</a> - Returns statistics about client per-process</p> <p><a href="#">get_client_version()</a> - Returns the MySQL client library version as an integer</p> <p><a href="#">get_connection_stats()</a> - Returns statistics about the client connection</p> <p><a href="#">get_host_info()</a> - Returns the MySQL server hostname and the connection type</p> <p><a href="#">get_proto_info()</a> - Returns the MySQL protocol version</p> <p><a href="#">get_server_info()</a> - Returns the MySQL server version</p> <p><a href="#">get_server_version()</a> - Returns the MySQL server version as an integer</p> <p><a href="#">info()</a> - Returns information about the last executed query</p> <p><a href="#">init()</a> - Initializes MySQLi and returns a resource for use with <a href="#">real_connect()</a></p> <p><a href="#">insert_id()</a> - Returns the auto-generated id from the last query</p> <p><a href="#">kill()</a> - Asks the server to kill a MySQL thread</p> <p><a href="#">more_results()</a> - Checks if there are more results from a multi query</p> <p><a href="#">multi_query()</a> - Performs one or more queries on the database</p> <p><a href="#">next_result()</a> - Prepares the next result-set from <a href="#">multi_query()</a></p> <p><a href="#">options()</a> - Sets extra connect options and affect behavior for a connection</p> <p><a href="#">ping()</a> - Pings a server connection, or tries to reconnect if the connection has gone down</p> <p><a href="#">poll()</a> - Polls connections</p> <p><a href="#">prepare()</a> - Prepares an SQL statement for execution</p> <p><a href="#">query()</a> - Performs a query against a database</p> <p><a href="#">real_connect()</a> - Opens a new connection to the MySQL server</p> <p><a href="#">real_escape_string()</a> - Escapes special characters in a string for use in an SQL statement</p> <p><a href="#">real_query()</a> - Executes a single SQL query</p> <p><a href="#">reap_async_query()</a> - Returns result from an async SQL query</p> <p><a href="#">refresh()</a> - Refreshes/flushes tables or caches, or resets the replication server information</p> <p><a href="#">rollback()</a> - Rolls back the current transaction for the database</p> <p><a href="#">select_db()</a> - Select the default database for database queries</p> <p><a href="#">set_charset()</a> - Sets the default client character set</p> <p><a href="#">set_local_infile_default()</a> - Unsets user defined</p> |
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|         | <p>handler for load local infile command</p> <p><a href="#">set_local_infile_handler()</a> - Set callback function for LOAD DATA LOCAL INFILE command</p> <p><a href="#">sqlstate()</a> - Returns the SQLSTATE error code for the error</p> <p><a href="#">ssl_set()</a> - Used to establish secure connections using SSL</p> <p><a href="#">stat()</a> - Returns the current system status</p> <p><a href="#">stmt_init()</a> - Initializes a statement and returns an object for use with stmt_prepare()</p> <p><a href="#">store_result()</a> - Transfers a result-set from the last query</p> <p><a href="#">thread_id()</a> - Returns the thread ID for the current connection</p> <p><a href="#">thread_safe()</a> - Returns whether the client library is compiled as thread-safe</p> <p><a href="#">use_result()</a> - Initiates the retrieval of a result-set from the last query executed</p> <p><a href="#">warning_count()</a> - Returns the number of warnings from the last query in the connection</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Network | <p>The Network functions contains various network function and let you manipulate information sent to the browser by the Web server, before any other output has been sent.</p> <p><a href="#">checkdnsrr()</a> - Checks DNS records for <i>type</i> corresponding to <i>host</i></p> <p><a href="#">closelog()</a> - Closes the connection of system logger</p> <p><a href="#">define_syslog_variables()</a> - <b>Deprecated and removed in PHP 5.4.</b> Initializes the variables used in syslog functions</p> <p><a href="#">dns_check_record()</a> - Alias of <a href="#">checkdnsrr()</a></p> <p><a href="#">dns_get_mx()</a> - Alias of <a href="#">getmxrr()</a></p> <p><a href="#">dns_get_record()</a> - Gets the DNS resource records associated with the specified hostname</p> <p><a href="#">fsockopen()</a> - Opens an Internet or Unix domain socket connection</p> <p><a href="#">gethostbyaddr()</a> - Returns the domain name for a given IP address</p> <p><a href="#">gethostbyname()</a> - Returns the IPv4 address for a given domain/host name</p> <p><a href="#">gethostbyname_l()</a> - Returns a list of IPv4 address for a given domain/host name</p> <p><a href="#">gethostname()</a> - Returns the host name</p> <p><a href="#">getmxrr()</a> - Returns the MX records for the specified internet host name</p> <p><a href="#">getprotobyname()</a> - Returns the protocol number for a given protocol name</p> <p><a href="#">getprotobynumber()</a> - Returns the protocol name for a given protocol number</p> <p><a href="#">getservbyname()</a> - Returns the port number for a given Internet service and protocol</p> <p><a href="#">getservbyport()</a> - Returns the Internet service for a given port and protocol</p> <p><a href="#">header_register_callback()</a> - Calls a header function</p> <p><a href="#">header_remove()</a> - Removes an HTTP header previously set with the <a href="#">header()</a> function</p> <p><a href="#">header()</a> - Sends a raw HTTP header to a client</p> <p><a href="#">headers_list()</a> - Returns a list of response headers to be sent to the browser</p> <p><a href="#">headers_sent()</a> - Checks if/where headers have been</p> |

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|           | <p>sent</p> <p><a href="#">http_response_code()</a> - Sets or returns the HTTP response status code</p> <p><a href="#">inet_ntop()</a> - Converts a 32bit IPv4 or 128bit IPv6 address into a readable format</p> <p><a href="#">inet_pton()</a> - Converts a readable IP address into a packed 32bit IPv4 or 128bit IPv6 format</p> <p><a href="#">ip2long()</a> - Converts an IPv4 address into a long integer</p> <p><a href="#">long2ip()</a> - Converts a long integer address into a string in IPv4 format</p> <p><a href="#">openlog()</a> - Opens the connection of system logger</p> <p><a href="#">pfsockopen()</a> - Opens a persistent Internet or Unix domain socket connection</p> <p><a href="#">setcookie()</a> - Defines a cookie to be sent along with the rest of the HTTP headers</p> <p><a href="#">setrawcookie()</a> - Defines a cookie (without URL encoding) to be sent along with the rest of the HTTP headers</p> <p><a href="#">socket_get_status()</a> - Alias of <a href="#">stream_get_meta_data()</a></p> <p><a href="#">socket_set_blocking()</a> - Alias of <a href="#">stream_set_blocking()</a></p> <p><a href="#">socket_set_timeout()</a> - Alias of <a href="#">stream_set_timeout()</a></p> <p><a href="#">syslog()</a> - Generates a system log message</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SimpleXML | <p>SimpleXML is an extension that allows us to easily manipulate and get XML data. SimpleXML provides an easy way of getting an element's name, attributes and textual content if you know the XML document's structure or layout. SimpleXML turns an XML document into a data structure you can iterate through like a collection of arrays and objects.</p> <p><a href="#">__construct()</a> - Creates a new SimpleXMLElement object</p> <p><a href="#">__toString()</a> - Returns the string content of an element</p> <p><a href="#">addAttribute()</a> - Appends an attribute to the SimpleXML element</p> <p><a href="#">addChild()</a> - Appends a child element the SimpleXML element</p> <p><a href="#">asXML()</a> - Returns a well-formed XML string (XML version 1.0) from a SimpleXML object</p> <p><a href="#">attributes()</a> - Returns the attributes/values of an element</p> <p><a href="#">children()</a> - Returns the children of a specified node</p> <p><a href="#">count()</a> - Counts the children of a specified node</p> <p><a href="#">getDocNamespaces()</a> - Returns the namespaces declared in document</p> <p><a href="#">getName()</a> - Returns the name of an element</p> <p><a href="#">getNamespaces()</a> - Returns the namespaces used in document</p> <p><a href="#">registerXPathNamespace()</a> - Creates a namespace context for the next XPath query</p> <p><a href="#">saveXML()</a> - Alias of <a href="#">asXML()</a></p> <p><a href="#">simplexml_import_dom()</a> - Returns a SimpleXMLElement object from a DOM node</p> <p><a href="#">simplexml_load_file()</a> - Converts an XML document to an object</p> <p><a href="#">simplexml_load_string()</a> - Converts an XML string to an object</p> |



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|        | <p><a href="#">xpath()</a> - Runs an XPath query on XML data</p> <p>PHP SimpleXML Iteration Functions</p> <p><a href="#">current()</a> - Returns the current element</p> <p><a href="#">getChildren()</a> - Returns the child elements of the current element</p> <p><a href="#">hasChildren()</a> - Checks whether the current element has children</p> <p><a href="#">key()</a> - Returns the XML tag name of the current element</p> <p><a href="#">next()</a> - Moves to the next element</p> <p><a href="#">rewind()</a> - Rewinds to the first element</p> <p><a href="#">valid()</a> - Checks whether the current element is valid</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Stream | <p>The Stream functions ....</p> <p>Streams are the way of generalizing file, network, data compression, and other operations which share a common set of functions and uses. In its simplest definition, a stream is a resource object which exhibits streamable behavior. That is, it can be read from or written to in a linear fashion, and may be able to fseek() to an arbitrary location within the stream.</p> <p>A wrapper is additional code which tells the stream how to handle specific protocols/encodings.</p> <p><a href="#">set_socket_blocking()</a> - <b>Deprecated in PHP 5.4, and removed in PHP 7.0.</b> Alias of stream_set_blocking()</p> <p><a href="#">stream_bucket_prepend()</a></p> <p><a href="#">stream_context_create()</a></p> <p><a href="#">stream_context_get_default()</a></p> <p><a href="#">stream_context_get_options()</a></p> <p><a href="#">stream_context_get_params()</a></p> <p><a href="#">stream_context_set_default()</a></p> <p><a href="#">stream_context_set_options()</a></p> <p><a href="#">stream_context_set_params()</a></p> <p><a href="#">stream_copy_to_stream()</a> - Copies data from one stream to another</p> <p><a href="#">stream_filter_append()</a> - Appends a filter to a stream</p> <p><a href="#">stream_filter_prepend()</a></p> <p><a href="#">stream_filter_register()</a></p> <p><a href="#">stream_filter_remove()</a></p> <p><a href="#">stream_get_contents()</a></p> <p><a href="#">stream_get_filters()</a></p> <p><a href="#">stream_get_line()</a></p> <p><a href="#">stream_get_meta_data()</a></p> <p><a href="#">stream_get_transports()</a></p> <p><a href="#">stream_get_wrappers()</a></p> <p><a href="#">stream_is_local()</a></p> <p><a href="#">stream_isatty()</a></p> <p><a href="#">stream_notification_callback()</a></p> <p><a href="#">stream_register_wrapper()</a> - Alias of stream_wrapper_register()</p> <p><a href="#">stream_resolve_include_path()</a></p> <p><a href="#">stream_select()</a></p> <p><a href="#">stream_set_blocking()</a></p> <p><a href="#">stream_set_chunk_size()</a></p> <p><a href="#">stream_set_read_buffer()</a></p> <p><a href="#">stream_set_timeout()</a></p> <p><a href="#">stream_set_write_buffer()</a></p> <p><a href="#">stream_socket_accept()</a></p> |

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|        | <div>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>The PHP string functions are part of the PHP core. No installation is required to use these functions.</div> <div><a href="#">addslashes()</a> -Returns a string with backslashes in front of the specified characters<br/><a href="#">addslashes()</a> -Returns a string with backslashes in front of predefined characters<br/><a href="#">bin2hex()</a> -Converts a string of ASCII characters to hexadecimal values<br/><a href="#">chop()</a> -Removes whitespace or other characters from the right end of a string<br/><a href="#">chr()</a> -Returns a character from a specified ASCII value<br/><a href="#">chunk_split()</a> -Splits a string into a series of smaller parts<br/><a href="#">convert_cyr_string()</a> -Converts a string from one Cyrillic character-set to another<br/><a href="#">convert_uudecode()</a> -Decodes a uuencoded string<br/><a href="#">convert_uuencode()</a> -Encodes a string using the uuencode algorithm<br/><a href="#">count_chars()</a> -Returns information about characters used in a string<br/><a href="#">crc32()</a> -Calculates a 32-bit CRC for a string<br/><a href="#">crypt()</a> -One-way string hashing<br/><a href="#">echo()</a> -Outputs one or more strings<br/><a href="#">explode()</a> -Breaks a string into an array<br/><a href="#">fprintf()</a> -Writes a formatted string to a specified output stream<br/><a href="#">get_html_translation_table()</a> -Returns the translation table used by htmlspecialchars() and htmlentities()<br/><a href="#">hebrew()</a> -Converts Hebrew text to visual text<br/><a href="#">hebrevc()</a> -Converts Hebrew text to visual text and new lines (\n) into &lt;br&gt;<br/><a href="#">hex2bin()</a> -Converts a string of hexadecimal values to ASCII characters<br/><a href="#">html_entity_decode()</a> -Converts HTML entities to characters<br/><a href="#">htmlentities()</a> -Converts characters to HTML entities<br/><a href="#">htmlspecialchars_decode()</a> -Converts some predefined HTML entities to characters<br/><a href="#">htmlspecialchars()</a> -Converts some predefined characters to HTML entities<br/><a href="#">implode()</a> -Returns a string from the elements of an array<br/><a href="#">join()</a> -Alias of <a href="#">implode()</a><br/><a href="#">lcfirst()</a> -Converts the first character of a string to lowercase<br/><a href="#">levenshtein()</a> -Returns the Levenshtein distance between two strings</div> |

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|  | <p><a href="#"><u>localeconv()</u></a>-Returns locale numeric and monetary formatting information</p> <p><a href="#"><u>ltrim()</u></a>-Removes whitespace or other characters from the left side of a string</p> <p><a href="#"><u>md5()</u></a> -Calculates the MD5 hash of a string</p> <p><a href="#"><u>md5_file()</u></a> -Calculates the MD5 hash of a file</p> <p><a href="#"><u>metaphone()</u></a> -Calculates the metaphone key of a string</p> <p><a href="#"><u>money_format()</u></a>-Returns a string formatted as a currency string</p> <p><a href="#"><u>nl_langinfo()</u></a> -Returns specific local information</p> <p><a href="#"><u>nl2br()</u></a>-Inserts HTML line breaks in front of each newline in a string</p> <p><a href="#"><u>number_format()</u></a> -Formats a number with grouped thousands</p> <p><a href="#"><u>ord()</u></a>-Returns the ASCII value of the first character of a string</p> <p><a href="#"><u>parse_str()</u></a>-Parses a query string into variables</p> <p><a href="#"><u>print()</u></a>-Outputs one or more strings</p> <p><a href="#"><u>printf()</u></a> -Outputs a formatted string</p> <p><a href="#"><u>quoted_printable_decode()</u></a> -Converts a quoted-printable string to an 8-bit string</p> <p><a href="#"><u>quoted_printable_encode()</u></a>-Converts an 8-bit string to a quoted printable string</p> <p><a href="#"><u>quotemeta()</u></a>-Quotes meta characters</p> <p><a href="#"><u>rtrim()</u></a> -Removes whitespace or other characters from the right side of a string</p> <p><a href="#"><u>setlocale()</u></a> -Sets locale information</p> <p><a href="#"><u>sha1()</u></a> -Calculates the SHA-1 hash of a string</p> <p><a href="#"><u>sha1_file()</u></a>-Calculates the SHA-1 hash of a file</p> <p><a href="#"><u>similar_text()</u></a> -Calculates the similarity between two strings</p> <p><a href="#"><u>soundex()</u></a> -Calculates the soundex key of a string</p> <p><a href="#"><u>sprintf()</u></a>-Writes a formatted string to a variable</p> <p><a href="#"><u>sscanf()</u></a>-Parses input from a string according to a format</p> <p><a href="#"><u>str_getcsv()</u></a>-Parses a CSV string into an array</p> <p><a href="#"><u>str_ireplace()</u></a>-Replaces some characters in a string (case-insensitive)</p> <p><a href="#"><u>str_pad()</u></a>-Pads a string to a new length</p> <p><a href="#"><u>str_repeat()</u></a>-Repeats a string a specified number of times</p> <p><a href="#"><u>str_replace()</u></a> -Replaces some characters in a string (case-sensitive)</p> <p><a href="#"><u>str_rot13()</u></a>-Performs the ROT13 encoding on a string</p> <p><a href="#"><u>str_shuffle()</u></a> -Randomly shuffles all characters in a string</p> <p><a href="#"><u>str_split()</u></a>-Splits a string into an array</p> <p><a href="#"><u>str_word_count()</u></a> -Count the number of words in a string</p> <p><a href="#"><u>strcasecmp()</u></a>-Compares two strings (case-insensitive)</p> <p><a href="#"><u>strchr()</u></a>-Finds the first occurrence of a string inside another string (alias of strstr())</p> <p><a href="#"><u>strcmp()</u></a>-Compares two strings (case-sensitive)</p> <p><a href="#"><u>strcoll()</u></a> -compares two strings (locale based string comparison)</p> <p><a href="#"><u>strcspn()</u></a> - Returns the number of characters found in a string before any part of some specified characters are found</p> <p><a href="#"><u>strip_tags()</u></a>-Strips HTML and PHP tags from a string</p> <p><a href="#"><u>stripclashes()</u></a>-Unquotes a string quoted with</p> |
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|            | <p><a href="#">addslashes()</a><br/><a href="#">stripslashes()</a>-Unquotes a string quoted with <a href="#">addslashes()</a><br/><a href="#">strpos()</a> -Returns the position of the first occurrence of a string inside another string (case-insensitive)<br/><a href="#">striestr()</a> -Finds the first occurrence of a string inside another string (case-insensitive)<br/><a href="#">strlen()</a> -Returns the length of a string<br/><a href="#">strnatcasecmp()</a> -Compares two strings using a "natural order" algorithm (case-insensitive)<br/><a href="#">strnatcmp()</a>-Compares two strings using a "natural order" algorithm (case-sensitive)<br/><a href="#">strncasecmp()</a>-String comparison of the first n characters (case-insensitive)<br/><a href="#">strncmp()</a>-String comparison of the first n characters (case-sensitive)<br/><a href="#">strpbrk()</a>-Searches a string for any of a set of characters<br/><a href="#">strpos()</a>-Returns the position of the first occurrence of a string inside another string (case-sensitive)<br/><a href="#">strrchr()</a>-Finds the last occurrence of a string inside another string<br/><a href="#">strrev()</a>-Reverses a string<br/><a href="#">strripos()</a> - Finds the position of the last occurrence of a string inside another string (case-insensitive)<br/><a href="#">strrpos()</a>-Finds the position of the last occurrence of a string inside another string (case-sensitive)<br/><a href="#">strspn()</a>-Returns the number of characters found in a string that contains only characters from a specified charlist<br/><a href="#">strstr()</a> -Finds the first occurrence of a string inside another string (case-sensitive)<br/><a href="#">strtok()</a> -Splits a string into smaller strings<br/><a href="#">strtolower()</a>-Converts a string to lowercase letters<br/><a href="#">strtoupper()</a> -Converts a string to uppercase letters<br/><a href="#">strtr()</a>-Translates certain characters in a string<br/><a href="#">substr()</a>-Returns a part of a string<br/><a href="#">substr_compare()</a>-Compares two strings from a specified start position (binary safe and optionally case-sensitive)<br/><a href="#">substr_count()</a>-Counts the number of times a substring occurs in a string<br/><a href="#">substr_replace()</a>-Replaces a part of a string with another string<br/><a href="#">trim()</a>-Removes whitespace or other characters from both sides of a string<br/><a href="#">ucfirst()</a>-Converts the first character of a string to uppercase<br/><a href="#">ucwords()</a>-Converts the first character of each word in a string to uppercase<br/><a href="#">vfprintf()</a>-Writes a formatted string to a specified output stream<br/><a href="#">vprintf()</a>-Outputs a formatted string<br/><a href="#">vsprintf()</a> - Writes a formatted string to a variable<br/><a href="#">wordwrap()</a> - Wraps a string to a given number of characters</p> |
| XML Parser | <p>The XML functions lets you parse, but not validate, XML documents.<br/>XML is a data format for standardized structured document exchange. More information on XML can be found in our <a href="#">XML Tutorial</a>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|     | <p>This extension uses the Expat XML parser. Expat is an event-based parser, it views an XML document as a series of events. When an event occurs, it calls a specified function to handle it. Expat is a non-validating parser, and ignores any DTDs linked to a document. However, if the document is not well formed it will end with an error message.</p> <p>Because it is an event-based, non validating parser, Expat is fast and well suited for web applications. The XML parser functions lets you create XML parsers and define handlers for XML events.</p> <p><a href="#">utf8_decode()</a> -Decodes an UTF-8 string to ISO-8859-1</p> <p><a href="#">utf8_encode()</a> -Encodes an ISO-8859-1 string to UTF-8</p> <p><a href="#">xml_error_string()</a> -Returns an error string from the XML parser</p> <p><a href="#">xml_get_current_byte_index()</a> -Returns the current byte index from the XML parser</p> <p><a href="#">xml_get_current_column_number()</a> -Returns the current column number from the XML parser</p> <p><a href="#">xml_get_current_line_number()</a> -Returns the current line number from the XML parser</p> <p><a href="#">xml_get_error_code()</a> -Returns an error code from the XML parser</p> <p><a href="#">xml_parse()</a> -Parses an XML document</p> <p><a href="#">xml_parse_into_struct()</a> -Parses XML data into an array</p> <p><a href="#">xml_parser_create_ns()</a> -Creates an XML parser with namespace support</p> <p><a href="#">xml_parser_create()</a> -Creates an XML parser</p> <p><a href="#">xml_parser_free()</a> -Frees an XML parser</p> <p><a href="#">xml_parser_get_option()</a> -Returns options from an XML parser</p> <p><a href="#">xml_parser_set_option()</a> -Sets options in an XML parser</p> <p><a href="#">xml_set_character_data_handler()</a> -Sets up the character data handler for the XML parser</p> <p><a href="#">xml_set_default_handler()</a> - Sets up the default data handler for the XML parser</p> <p><a href="#">xml_set_element_handler()</a> -Sets up start and end element handlers for the XML parser</p> <p><a href="#">xml_set_end_namespace_decl_handler()</a> -Sets up the end namespace declaration handler</p> <p><a href="#">xml_set_external_entity_ref_handler()</a> -Sets up the external entity reference handler for the XML parser</p> <p><a href="#">xml_set_notation_decl_handler()</a> - Sets up notation declaration handler for the XML parser</p> <p><a href="#">xml_set_object()</a> - Allows to use XML parser within an object</p> <p><a href="#">xml_set_processing_instruction_handler()</a> -Sets up processing instruction handler</p> <p><a href="#">xml_set_start_namespace_decl_handler()</a> - Sets up the start namespace declaration handler</p> <p><a href="#">xml_set_unparsed_entity_decl_handler()</a> -Sets handler function for unparsed entity declarations</p> |
| Zip | <p>The Zip files functions allows you to read ZIP files.</p> <p><a href="#">zip_close()</a> - Closes a ZIP file archive</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|           | <a href="#">zip_entry_close()</a> - Closes a ZIP directory entry<br><a href="#">zip_entry_compressedsize()</a> - Returns the compressed file size of a ZIP directory entry<br><a href="#">zip_entry_compressionmethod()</a> - Returns the compression method of a ZIP directory entry<br><a href="#">zip_entry_filesize()</a> - Returns the actual file size of a ZIP directory entry<br><a href="#">zip_entry_name()</a> - Returns the name of a ZIP directory entry<br><a href="#">zip_entry_open()</a> - Opens a directory entry in a ZIP file for reading<br><a href="#">zip_entry_read()</a> - Reads from an open directory entry in the ZIP file<br><a href="#">zip_open()</a> - Opens a ZIP file archive<br><a href="#">zip_read()</a> - Reads the next file in a open ZIP file archive                                                                                                                                                                                                                                                                                                                                                                      |
| Timezones | <p>PHP Supported Timezones</p> <p>Below is a complete list of the timezones supported by PHP, which are useful with several PHP date functions.</p> <ul style="list-style-type: none"><li>• <a href="#">Africa</a></li><li>• <a href="#">America</a></li><li>• <a href="#">Antarctica</a></li><li>• <a href="#">Arctic</a></li><li>• <a href="#">Asia</a></li><li>• <a href="#">Atlantic</a></li><li>• <a href="#">Australia</a></li><li>• <a href="#">Europe</a></li><li>• <a href="#">Indian</a></li><li>• <a href="#">Pacific</a></li></ul> <p>AFRICA</p> <p>Africa/Abidjan<br/>Africa/Accra<br/>Africa/Addis_Ababa<br/>Africa/Algiers<br/>Africa/Asmara<br/>Africa/Asmera<br/>Africa/Bamako<br/>Africa/Bangui<br/>Africa/Banjul<br/>Africa/Bissau<br/>Africa/Blantyre<br/>Africa/Brazzaville<br/>Africa/Bujumbura<br/>Africa/Cairo<br/>Africa/Casablanca<br/>Africa/Ceuta<br/>Africa/Conakry<br/>Africa/Dakar<br/>Africa/Dar_es_Salaam<br/>Africa/Djibouti<br/>Africa/Douala<br/>Africa/El_Aaiun<br/>Africa/Freetown<br/>Africa/Gaborone<br/>Africa/Harare<br/>Africa/Johannesburg<br/>Africa/Juba<br/>Africa/Kampala<br/>Africa/Khartoum<br/>Africa/Kigali</p> |

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|  | <div>Africa/Kinshasa</div> <div>Africa/Lagos</div> <div>Africa/Libreville</div> <div>Africa/Lome</div> <div>Africa/Luanda</div> <div>Africa/Lubumbashi</div> <div>Africa/Lusaka</div> <div>Africa/Malabo</div> <div>Africa/Maputo</div> <div>Africa/Maseru</div> <div>Africa/Mbabane</div> <div>Africa/Mogadishu</div> <div>Africa/Monrovia</div> <div>Africa/Nairobi</div> <div>Africa/Ndjamena</div> <div>Africa/Niamey</div> <div>Africa/Nouakchott</div> <div>Africa/Ouagadougou</div> <div>Africa/Porto-Novo</div> <div>Africa/Sao_Tome</div> <div>Africa/Timbuktu</div> <div>Africa/Tripoli</div> <div>Africa/Tunis</div> <div>Africa/Windhoek</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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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.

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.

PHP (version 5.3 and above) supports Perl style regular expressions via its `preg_` family of functions. Why Perl style regular expressions? Because Perl (*Practical Extraction and Report Language*) was the first mainstream programming language that provided integrated support for regular expressions and it is well known for its strong support of regular expressions and its extraordinary text processing and manipulation capabilities.

## Regular Expression Syntax

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.

The following sections describe the various options available for formulating patterns:

### Character Classes

Square brackets surrounding a pattern of characters are called a character class e.g. `[abc]`. A character class always matches a single character out of a list of specified characters that means the expression `[abc]` matches only a, b or c character.

Negated character classes can also be defined that match any character except those contained within the brackets. A negated character class is defined by placing a caret (^) symbol immediately after the opening bracket, like this `[^abc]`.

You can also define a range of characters by using the hyphen (-) character inside a character class, like [0-9]. Let's look at some examples of character classes:

| RegExp   | What it Does                                                   |
|----------|----------------------------------------------------------------|
| [abc]    | Matches any one of the characters a, b, or c.                  |
| [^abc]   | Matches any one character other than a, b, or c.               |
| [a-z]    | Matches any one character from lowercase a to lowercase z.     |
| [A-Z]    | Matches any one character from uppercase a to uppercase z.     |
| [a-Z]    | Matches any one character from lowercase a to uppercase Z.     |
| [0-9]    | Matches a single digit between 0 and 9.                        |
| [a-z0-9] | Matches a single character between a and z or between 0 and 9. |

The following example will show you how to find whether a pattern exists in a string or not using the regular expression and PHP `preg_match()` function:

#### Example

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

Similarly, you can use the `preg_match_all()` function to find all matches within a string:

#### Example

```
<?php
$pattern = "/ca[kf]e/";
$text = "He was eating cake in the cafe.";
$matches = preg_match_all($pattern, $text, $array);
echo $matches . " matches were found.";
?>
```

**Tip:** Regular expressions aren't exclusive to PHP. Languages such as Java, Perl, Python, etc. use the same notation for finding patterns in text.

## Predefined Character Classes

Some character classes such as digits, letters, and whitespaces are used so frequently that there are shortcut names for them. The following table lists those predefined character classes:

| Shortcut        | What it Does                                                                                                          |
|-----------------|-----------------------------------------------------------------------------------------------------------------------|
| .               | Matches any single character except newline <code>\n</code> .                                                         |
| <code>\d</code> | matches any digit character. Same as <code>[0-9]</code>                                                               |
| <code>\D</code> | Matches any non-digit character. Same as <code>[^0-9]</code>                                                          |
| <code>\s</code> | Matches any whitespace character (space, tab, newline or carriage return character). Same as <code>[\t\n\r]</code>    |
| <code>\S</code> | Matches any non-whitespace character. Same as <code>[^\t\n\r]</code>                                                  |
| <code>\w</code> | Matches any word character (defined as a to z, A to Z, 0 to 9, and the underscore). Same as <code>[a-zA-Z_0-9]</code> |
| <code>\W</code> | Matches any non-word character. Same as <code>[^a-zA-Z_0-9]</code>                                                    |

The following example will show you how to find and replace space with a hyphen character in a string using regular expression and PHP `preg_replace()` function:

### Example

```
<?php
$pattern = "\s/";
$replacement = "-";
$text = "Earth revolves around\nthe\tSun";
// Replace spaces, newlines and tabs
echo preg_replace($pattern, $replacement, $text);
echo "
";
// Replace only spaces
echo str_replace(" ", "-", $text);
?>
```

---

## Repetition Quantifiers

In the previous section we've learnt how to match a single character in a variety of fashions. But what if you want to match on more than one character? For example, let's say you want to find out words containing one or more instances of

the letter p, or words containing at least two p's, and so on. This is where quantifiers come into play. With quantifiers you can specify how many times a character in a regular expression should match.

The following table lists the various ways to quantify a particular pattern:

| RegExp | What it Does                                                                                           |
|--------|--------------------------------------------------------------------------------------------------------|
| p+     | Matches one or more occurrences of the letter p.                                                       |
| p*     | Matches zero or more occurrences of the letter p.                                                      |
| p?     | Matches zero or one occurrences of the letter p.                                                       |
| p{2}   | Matches exactly two occurrences of the letter p.                                                       |
| p{2,3} | Matches at least two occurrences of the letter p, but not more than three occurrences of the letter p. |
| p{2,}  | Matches two or more occurrences of the letter p.                                                       |
| p{,3}  | Matches at most three occurrences of the letter p                                                      |

The regular expression in the following example will splits the string at comma, sequence of commas, whitespace, or combination thereof using the PHP `preg_split()` function:

#### Example

```
<?php
$pattern = "[\s,]+/";
$text = "My favourite colors are red, green and blue";
$parts = preg_split($pattern, $text);

// Loop through parts array and display substrings
foreach($parts as $part){
 echo $part . "
";
}
?>
```

---

## Position Anchors

There are certain situations where you want to match at the beginning or end of a line, word, or string. To do this you can use anchors. Two common anchors are caret (^) which represent the start of the string, and the dollar (\$) sign which represent the end of the string.

| RegExp           | What it Does                                     |
|------------------|--------------------------------------------------|
| <code>^p</code>  | Matches the letter p at the beginning of a line. |
| <code>p\$</code> | Matches the letter p at the end of a line.       |

The regular expression in the following example will display only those names from the names array which start with the letter "J" using the PHP `preg_grep()` function:

### Example

```
<?php
$pattern = "/^J/";
$names = array("Jhon Carter", "Clark Kent", "John Rambo");
$matches = preg_grep($pattern, $names);

// Loop through matches array and display matched names
foreach($matches as $match){
 echo $match . "
";
}
?>
```

## Pattern Modifiers

A pattern modifier allows you to control the way a pattern match is handled. Pattern modifiers are placed directly after the regular expression, for example, if you want to search for a pattern in a case-insensitive manner, you can use the `i` modifier, like this: `/pattern/i`. The following table lists some of the most commonly used pattern modifiers.

| Modifier       | What it Does                                                                                                                                                                             |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>i</code> | Makes the match case-insensitive manner.                                                                                                                                                 |
| <code>m</code> | Changes the behavior of <code>^</code> and <code>\$</code> to match against a newline boundary (i.e. start or end of each line within a multiline string), instead of a string boundary. |
| <code>g</code> | Perform a global match i.e. finds all occurrences.                                                                                                                                       |
| <code>o</code> | Evaluates the expression only once.                                                                                                                                                      |
| <code>s</code> | Changes the behavior of <code>.</code> (dot) to match all characters, including newlines.                                                                                                |
| <code>x</code> | Allows you to use whitespace and comments within a regular expression for clarity.                                                                                                       |

The following example will show you how to perform a global case-insensitive search using the `i` modifier and the PHP `preg_match_all()` function.

#### Example

```
<?php
$pattern = "/color/i";
$text = "Color red is more visible than color blue in daylight.";
$matches = preg_match_all($pattern, $text, $array);
echo $matches . " matches were found.";
?>
```

Similarly, the following example shows how to match at the beginning of every line in a multi-line string using `^` anchor and `m` modifier with PHP `preg_match_all()` function.

#### Example

```
<?php
$pattern = "/^color/im";
$text = "Color red is more visible than \ncolor blue in daylight.";
$matches = preg_match_all($pattern, $text, $array);
echo $matches . " matches were found.";
?>
```

---

## Word Boundaries

A word boundary character ( `\b` ) helps you search for the words that begins and/or ends with a pattern. For example, the regexp `\bcar/` matches the words beginning with the pattern `car`, and would match `cart`, `carrot`, or `cartoon`, but would not match `oscar`.

Similarly, the regexp `/car\b/` matches the words ending with the pattern `car`, and would match `scar`, `oscar`, or `supercar`, but would not match `cart`. Likewise, the `\bcar\b/` matches the words beginning and ending with the pattern `car`, and would match only the word `car`.

The following example will highlight the words beginning with `car` in bold:

#### Example

```
<?php
$pattern = '/\bcar\w*/';
$replacement = '$0';
```



```
$text = 'Words begining with car: cart, carrot, cartoon. Words ending with car: scar, oscar, supercar.';
echo preg_replace($pattern, $replacement, $text);
?>
```

2. Solve the ff. problem using Regular Expressions.

a. Write a PHP script that checks if a string contains another string

Sample String: 'The quick brown fox'

Test input: 'Fox'

Expected output: Fox is found the string

```
<?php
$str1 = 'The quick brown fox';
if (strpos($str1,'fox') !== false)
{
 echo 'Fox is found the string';
}
else
{
 echo 'Fox is not found the string';
}
?>
```

b. Write a PHP script that removes the last word from a string.

Sample String: 'The quick brown fox'

Expected output: 'The quick brown'

```
<?php
$str1 = 'The quick brown fox';
echo preg_replace('/\W\w+\s*(\W*)$/', '$1', $str1)."\n";
?>
```

c. Write a PHP script to remove nonnumeric characters except comma and dot.

Sample String: '/\$123,34.00A#'

Expected output: 123,34.00

```
<?php
$str1 = "$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: abcdeddf d 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.

**Parse error or Syntax Error:**

**Fatal Error:**

**Warning Errors :**

**Notice Error:**

## Basic Error Handling: Using the die() function

### Example

```
<?php
if(file_exists("mytestfile.txt")) {
 $file = fopen("mytestfile.txt", "r");
} else {
 die("Error: The file does not exist.");
}
?>
```