

String

1. Length and Substring

- `strlen($string)`: Returns the length of a string.
- `substr($string, $start, $length)`: Extracts a substring from a string.(0 থেকে 5 পর্যন্ত substring return করবে।)

```
<?php
$string = "Hello, World!";

// Get length of a string
echo strlen($string); // Output: 13

// Get a substring
echo substr($string, 0, 5); // Output: Hello

?>
```

2. Search and Replace

- `strpos($haystack, $needle)`: Finds the position of the first occurrence of a substring.(`World` কোথায় থেকে শুরু হয়েছে তার position return করবে।এখানে `World` এর `W` এর ইনডেক্স 7)
- `str_replace($search, $replace, $subject)`: Replaces occurrences of a substring with another substring.(এখানে `"World"` replace হবে `"PHP"` দ্বারা।)
- `str_ireplace($search, $replace, $subject)`: Case-insensitive version of `str_replace`.(case insensitive)

```
<?php
$string = "Hello, World!";

// Find position of substring
echo strpos($string, "World"); // Output: 7

// Replace substring
echo str_replace("World", "PHP", $string); // Output: Hello, PHP!

// Case-insensitive replace
echo str_ireplace("world", "PHP", $string); // Output: Hello, PHP!

?>
```

3. Case Conversion

- `strtoupper($string)`: Converts a string to uppercase.
- `strtolower($string)`: Converts a string to lowercase.
- `ucfirst($string)`: Capitalizes the first character of a string.
- `ucwords($string)`: Capitalizes the first character of each word in a string.

```
<?php
$string = "hello world";

// Convert to uppercase
echo strtoupper($string); // Output: HELLO WORLD

// Convert to lowercase
echo strtolower("HELLO WORLD"); // Output: hello world

// Capitalize first character
echo ucfirst($string); // Output: Hello world

// Capitalize first character of each word
echo ucwords($string); // Output: Hello World

?>
```

4. Trim and Pad

- `trim($string)`: Removes whitespace from both sides of a string.(whitespace remove করে দিবে।)
- `ltrim($string)`: Removes whitespace from the left side.
- `rtrim($string)`: Removes whitespace from the right side.
- `str_pad($string, $length, $pad_string)`: Pads a string to a specified length with another('PHP' এর সাথে '*' এ্যাড করবে এবং length হবে ৮।)

```
<?php
$string = '  Hello World  ';

// Trim whitespace
echo trim($string); // Output: "Hello World"

// Trim from the left
echo ltrim($string); // Output: "Hello World  "

// Trim from the right
echo rtrim($string); // Output: "  Hello World"

$string1 = "$#Hello, World!#$";

// Trim `$` and `#` characters from both ends of the string
echo trim($string, "$#"); // Output: "Hello, World!"

// Pad a string
echo str_pad('PHP', 8, '*', STR_PAD_BOTH); // Output: **PHP**

?>
```

5. Split and Join

- `explode($delimiter, $string)`: Splits a string into an array by a delimiter.(\$string টিতে কমা(,) পেলে \$array তে এ্যাড/split হবে।)
- `implode($glue, $pieces)`: Joins array elements into a string with a specified delimiter.(array এর value গুলো মিলে নতুন string তৈরি হবে এবং string এ "-" এটা এ্যাড হবে।)

```
<?php
$string = "apple,banana,orange";

// Split a string into an array
$array = explode(",", $string);
print_r($array); //now array will be ["apple","banana","orange"]
                // Output: Array ( [0] => apple [1] => banana [2] => orange )

// Join array elements into a string
echo implode("-", $array); // Output: apple-banana-orange

?>
```

6. Repeat and Reverse

- `str_repeat($string, $multiplier)`: Repeats a string a specified number of times.(PHP ৩বার রিপিট হবে।)
- `strrev($string)`: Reverses a string.

```
<?php
$string = "PHP";

// Repeat a string
echo str_repeat($string, 3); // Output: PHPPHPPHP

// Reverse a string
echo strrev("Hello"); // Output: olleH

?>
```

8. Comparison and Matching

- `strcmp($str1, $str2)`: Compares two strings (case-sensitive).
- `strcasecmp($str1, $str2)`: Compares two strings (case-insensitive).
- `preg_match($pattern, $string)`: Performs a regular expression match.

```

<?php
    $str1 = "Hello";
    $str2 = "hello";

    // Compare two strings (case-sensitive)
    echo strcmp($str1, $str2); // Output: -1 (since "H" < "h")

    // Compare two strings (case-insensitive)
    echo strcasecmp($str1, $str2); // Output: 0 (case-insensitive match)

    // Regular expression match
    $string = "The quick brown fox";
    echo preg_match("/quick/", $string) ? "Found" : "Not Found"; // Output: Found
?>

```

The `wordwrap()` function in PHP wraps a string to a specified width by inserting line breaks at appropriate points.

```

<?php
    $text = "PHP is a popular general-purpose scripting language that is especially suited
to web development.";

    // Wrap text at 20 characters
    echo wordwrap($text, 20);
    // Output:
    // PHP is a popular
    // general-purpose
    // scripting language
    // that is especially
    // suited to web
    // development.
?>

```