

PHP – How to Loop through Characters in String?

PHP – Loop through Characters in String

To iterate over each character in a string, there are following two approaches.

Approach 1: Using `str_split()` and `foreach`

1. Take a string.
2. Split the string into an array of characters using `str_split()` function.
3. Use a looping statement like `for` loop or `while` loop, to iterate over each of the element (character) in the array.

Approach 2: Using `index` and `for` loop

1. Take a string.
2. Initialize index to 0.
3. Define `for` loop that iterates when the index is less than string length.
 1. Access character using string and index.

Example : For Each Character in String using `str_split()` and `foreach`

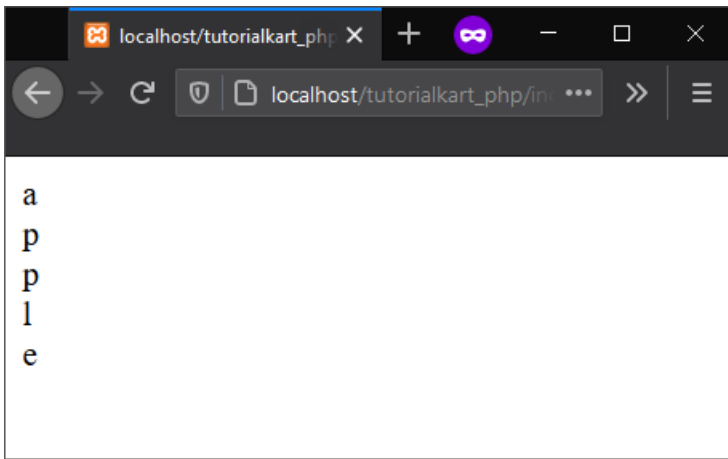
In this example, we will take a string, say “apple”, and iterate over each character of the string using `str_split()` function and `foreach` statement.

PHP Program

```
<?php
$str = "apple";
$chars = str_split($str);

foreach ($chars as $char) {
    echo $char;
    echo "<br>";
}
?>
```

Program Output



Example : For Each Character in String using Index and For Loop

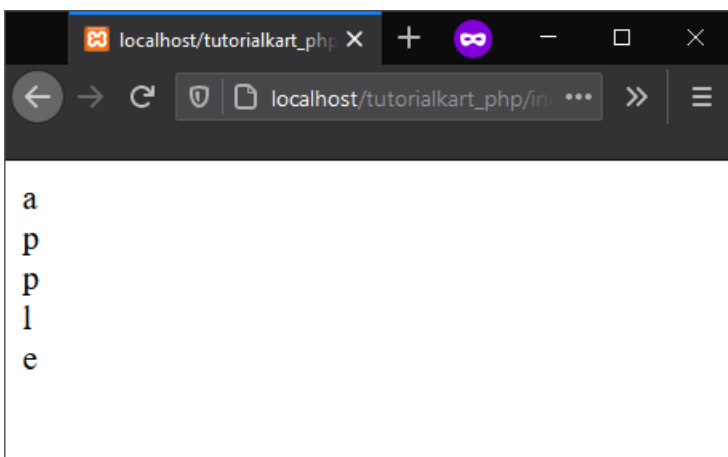
In this example, we will take a string, say “apple”, and iterate over each character of the string using index, that increments for each iteration, and for loop statement.

PHP Program

```
<?php
$str = "apple";

$length = strlen($str);
for ($index = 0; $index < $length; $index++) {
    echo $str[$index];
    echo "<br>";
}
?>
```

Program Output



Conclusion

In this [PHP Tutorial](#), we learned how to iterate or loop for each character in a string, using different ways in PHP.

PHP Tutorial

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↳ PHP Boolean

↳ PHP Integer

↳ PHP String

PHP Conditional Statements

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↳ PHP If AND

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PHP Loop Statements

↳ PHP While

PHP Strings

↳ PHP String Length

↳ PHP String - Count Number of Words

↳ PHP String Reverse

↳ PHP String - Loop through Characters

↳ PHP String - Loop through Words

↳ PHP Split String into Words

PHP Arrays

↳ PHP Create Array

↳ PHP String Array

↳ PHP Array Notice Undefined Offset

↳ PHP Array Count

↳ PHP Array Foreach