

1. WRITE A PHP PROGRAM TO DEMONSTRATE THE STRING FUNCTIONS.

```
<?php
```

```
// Demonstrating different PHP string functions
```

```
// 1. strlen() - Get the length of a string
```

```
$str = "Hello, PHP!";
```

```
echo "1. Length of the string: " . strlen($str) . "<br>";
```

```
// 2. strrev() - Reverse a string
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```
echo "2. Reversed string: " . strrev($str) . "<br>";
```

```
// 3. strpos() - Find the position of the first occurrence of a substring
```

```
echo "3. Position of 'PHP': " . strpos($str, "PHP") . "<br>";
```

```
// 4. str_replace() - Replace text within a string
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```
echo "4. Replace 'PHP' with 'World': " . str_replace("PHP", "World", $str) . "<br>";
```

```
// 5. strtolower() - Convert to lowercase
```

```
echo "5. Lowercase string: " . strtolower($str) . "<br>";
```

```
// 6. strtoupper() - Convert to uppercase
```

```
echo "6. Uppercase string: " . strtoupper($str) . "<br>";
```

```
// 7. ucfirst() - Capitalize the first letter
```

```
echo "7. Capitalize first letter: " . ucfirst("hello world") . "<br>";
```

```
// 8. ucwords() - Capitalize the first letter of each word
```

```
echo "8. Capitalize each word: " . ucwords("hello php world") . "<br>";
```

```
// 9. substr() - Extract a portion of a string
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```
echo "9. Extracted substring (0, 5): " . substr($str, 0, 5) . "<br>";
```

```
// 10. trim() - Remove whitespace from both ends
```

```
echo "10. Trimmed string: '" . trim(" Hello PHP! ") . "' . "<br>";
```

```
// 11. str_repeat() - Repeat a string
```

```
echo "11. Repeat string: " . str_repeat("PHP ", 3) . "<br>";
```

```
// 12. str_split() - Split a string into an array
```

```
$split = str_split($str);
```

```
echo "12. Split string: ";
```

```
print_r($split);
```

```
echo "<br>";
```

```
// 13. strcmp() - Compare two strings (case-sensitive)
echo "13. Compare 'Hello' and 'hello': " . strcmp("Hello", "hello") . "<br>";

// 14. strcasecmp() - Compare two strings (case-insensitive)
echo "14. Case-insensitive comparison: " . strcasecmp("Hello", "hello") . "<br>";

// 15. number_format() - Format a number with grouped thousands
echo "15. Number formatted: " . number_format(12345.6789, 2) . "<br>";

?>
```

2. Write a PHP program to demonstrate the different types of arrays

Numeric Array:

```
<html>
<body>
<?php
/* First method to create array. */
$numbers = array( 1, 2, 3, 4, 5);
foreach( $numbers as $value ) {
echo "Value is $value <br />";
}
/* Second method to create array. */
$numbers[0] = "one";
$numbers[1] = "two";
$numbers[2] = "three";
$numbers[3] = "four";
$numbers[4] = "five";
foreach( $numbers as $value ) {
echo "Value is $value <br />";
}
?>
</body>
</html>
```

Output:

```
Value is 1
Value is 2
Value is 3
Value is 4
Value is 5
Value is one
```

Value is two
Value is three
Value is four
Value is five

Associative Arrays:

```
<html>
<body>
<?php
/* First method to associate create array. */
$salaries = array("Rahul" => 2000, "qadir" => 1000, "zara" => 500);
echo "Salary of Rahul is ". $salaries['Rahul'] . "<br />";
echo "Salary of qadir is ". $salaries['qadir']. "<br />";
echo "Salary of zara is ". $salaries['zara']. "<br />";
/* Second method to create array. */
$salaries['Rahul'] = "high";
$salaries['qadir'] = "medium";
$salaries['zara'] = "low";
echo "Salary of Rahul is ". $salaries['Rahul'] . "<br />";
echo "Salary of qadir is ". $salaries['qadir']. "<br />";
echo "Salary of zara is ". $salaries['zara']. "<br />";
?>
</body>
</html>
```

Output:

Salary of Rahul is 2000
Salary of qadir is 1000
Salary of zara is 500
Salary of Rahul is high
Salary of qadir is medium
Salary of zara is low

Multidimensional Arrays:

```
<html>
<body>
<?php
$marks = array(
    "Rahul" => array (
        "physics" => 35,
        "maths" => 30,
```

```

"chemistry" => 39
),
"qadir" => array (
"physics" => 30,
"maths" => 32,
"chemistry" => 29
),
"zara" => array (
"physics" => 31,
"maths" => 22,
"chemistry" => 39
)
);
/* Accessing multi-dimensional array values */
echo "Marks for Rahul in physics : " ;
echo $marks["Rahul"]["physics"] . "<br />";
echo "Marks for qadir in maths : ";
echo $marks["qadir"]["maths"] . "<br />";
echo "Marks for zara in chemistry : " ;
echo $marks["zara"]["chemistry"] . "<br />";
?>
</body>
</html>

```

Output:

```

Marks for Rahul in physics : 35
Marks for qadir in maths : 32
Marks for zara in chemistry : 39

```