Practical: 4

Aim: Perform following programs of PHP String & it's inbuilt function.

Q.1 Write following PHP programs of String variable.

a. To concatenate two string variables.

Program:

```php
<?php
function concatinateString($string1, $string2,$sep)
{
    return $string1 .$sep. $string2;
}
?>
```

b. To find the length of a string.

Program:
```php
<?php
function stringSize($string1)
{
    return strlen($string1);
}
?>
```

Q.2 Write a PHP program that will compare two stings whether they are same or not.
Program:
```php
<?php
function stringEqual($string1,$string2)
{
    if(strcmp($string1, $string2)==-1)
    {
        return false;
    }
    else{
        return true;
    }
}
?>
```

Q.3 Write a PHP program that will convert a string into lowercase string and uppercase string.
Program:
```php
<?php
function toLower($string)
{
   return strtolower($string);
}

function toUpper($string)
{
   return strtoupper($string);
}
?>
```

Q.4 Write a PHP program to find a position of a given character into given string.

Program:

```php
<?php
function indexOf($searchString,$string)
{
   return strpos($string, $searchString);
}
?>
```

Q.5 Write a PHP program to replace one string using another string.
Program:
```php
<?php
   function stringReplace($oldString, $newString, $string)
   {
      return str_replace($oldString, $newString, $string);
   }
?>
```

Q.6 Write a PHP function vowelCount() which accepts a string as a parameter and returns the number of vowels in the in string. Vowels include a e i o and u. You may assume the string will be all lowercase.

Program:

```php
<?php
    $vowelArray = array('a', 'e', 'i', 'o', 'u');
    $count = 0;
    function vowelCount($string)
    {
        $str = strtolower($string);
        for($i=0;$i<strlen($str);$i++)
        {
            if(in_array($str[$i],$GLOBALS['vowelArray']))
            {
                $GLOBALS['count']++;
            }
        }
        return $GLOBALS['count'];
    }
?>
```

Q.7 Write a PHP program to print an arithmetic progression series.

Program:

```php
<?php
function claculate($a,$b,$x)
{
    $str = "( $a";
    for($i=$a+$x;$i<=$b;$i=$i+$x)
    {
        $str = $str . ", $i";
    }
    return $str." )";
}
?>
```

PHP Application of above questions.
Program:
```php
<?php
  include("q1_1.php");
  include("q1_2.php");
  include("q2.php");
  include("q3.php");
  include("q4.php");
  include("q5.php");
  include("q6.php");
  include("q7.php");
  if(isset($_POST['btnCompare']))
  {
    $str1 = $_POST['comparestr1'];
    $str2 = $_POST['comparestr2'];
    if(stringEqual($str1,$str2))
    {
      echo "$str1 == $str2<br>";
    }
    else{
      echo "$str1 != $str2<br>";
    }

  }
  if(isset($_POST['btnSearch']))
  {
    $str = $_POST['strMain'];
    echo "Original String: $str<br>";

    $searchStr = $_POST['searchString'];
    echo "Search String: $searchStr<br>";

    $index = indexOf($searchStr, $str);
    if(!empty($index))
    {
      echo "Search string Position is: $index<br>";
    }
    else{
      echo "Search string not found<br>";
    }
```

```
  }
  if(isset($_POST['btnLowerStr']))
  {
     $str = $_POST['lowerandupperstr'];
     echo "Original String: $str<br>";
     echo "Lowercase: ", toLower($str),"<br>";
  }
  if(isset($_POST['btnUpperStr']))
  {
     $str = $_POST['lowerandupperstr'];
     echo "Original String: $str<br>";
     echo "Uppercase: ",toUpper($str),"<br>";
  }
  if(isset($_POST['btnSizeStr']))
  {
     $str = $_POST['lowerandupperstr'];
     echo "Original String: $str<br>";
     echo "Length od String is : ",stringSize($str),"<br>";
  }
  if(isset($_POST['btnConcatinate']))
  {
     $str1 = $_POST['concatinatestr1'];
     $str2 = $_POST['concatinatestr2'];
     $sep = $_POST['seprator'];

     echo concatinateString($str1, $str2, $sep),"<br>";


  }
  if(isset($_POST['btnReplace']))
  {
     $str = $_POST['mainString'];
     $oldstr = $_POST['oldString'];
     $newstr = $_POST['newString'];

     echo "Original String: $str<br>";
     echo "Replaced string is: ",stringReplace($oldstr,$newstr,$str),"<br>";
  }
  if(isset($_POST['btnCountVowel']))
  {
     $str = $_POST['vowelString'];
```

```php
      echo "Original String: $str<br>";
      echo "No of Vowels is: ", vowelCount($str),"<br>";
   }
   if(isset($_POST['btnCompute']))
   {
      $startPos = $_POST['startPos'];
      $endPos = $_POST['endPos'];
      $skipPos = $_POST['skipNumber'];
      echo "Start Position: $startPos<br>";
      echo "End Position: $endPos<br>";
      echo "Skip Position: $skipPos<br>";
      echo "Result is: ",claculate($startPos,$endPos,$skipPos),"<br>";
   }
?>
<html>
   <body>
      <form method="post">
         <table>
            <tr>
               <td>String1: <input type="text" name="comparestr1"/>
               <input type="submit" name="btnCompare" value="Compare" />
                String2: <input type="text" name="comparestr2"/></td>
            </tr>
            <tr>
               <td><hr></td>
            </tr>
            <tr>
               <td>String: <input type="text" name="strMain"/>
               Search String: <input type="text" name="searchString"/>
               <input type="submit" name="btnSearch" value="Search"/></td>
            </tr>
            <tr>
               <td><hr></td>
            </tr>
            <tr>
               <td>String : <input type="text" name="lowerandupperstr"/>
               <input type="submit" name="btnLowerStr" value="Lower" />
               <input type="submit" name="btnUpperStr" value="Upper" />
               <input type="submit" name="btnSizeStr" value="Length" /></td>
            </tr>
```

```
<tr>
  <td><hr></td>
</tr>
<tr>
  <td>String1 : <input type="text" name="concatinatestr1"/>
  String2 : <input type="text" name="concatinatestr2"/>
  Seperator : <input type="text" name="seprator"/>
  <input type="submit" name="btnConcatinate" value="Concatinate" />
  </td>
</tr>
<tr>
  <td><hr></td>
</tr>
<tr>
  <td>MainString : <input type="text" name="mainString"/></td>
</tr>
<tr>
  <td>OldString : <input type="text" name="oldString"/></td>
</tr>
<tr>
  <td>NewString : <input type="text" name="newString"/></td>
</tr>
<tr>
  <td><input type="submit" name="btnReplace" value="Replace" /></td>
</tr>
<tr>
  <td><hr></td>
</tr>
<tr>
  <td>String : <input type="text" name="vowelString"/>
  <input type="submit" name="btnCountVowel" value="Vowel Count" />
  </td>
</tr>
<tr>
  <td><hr></td>
</tr>
<tr>
  <td>Start Position : <input type="text" name="startPos"/>
  End Position : <input type="text" name="endPos"/>
  Skip Position : <input type="text" name="skipNumber"/>
```

```
                    <input type="submit" name="btnCompute" value="Compute" />
                </td>
            </tr>
        </table>
    </form>
  </body>
</html>
```

Output: Q1_a

localhost:3000/main.php

Dhavanik | Kanzariya
String1: [   ] Compare String2: [   ]

String: [   ] Search String: [   ] Search

String : [   ] Lower Upper Length

String1 : [Dhavanik] String2 : [Kanzariya] Seperator : [|] Concatinate

Output: Q1_b

localhost:3000/main.php

Original String: Dhavanik Kanzariya 21012022022
Length od String is : 30
String1: [   ] Compare String2: [   ]

String: [   ] Search String: [   ] Search

String : [nik Kanzariya 21012022022] Lower Upper Length

Output: Q2

localhost:3000/main.php

Dhavanik != Kanzariya
String1: [Dhavanik] Compare String2: [Kanzariya]

Output: Q3

Original String: DhavanikKanzaRiya
Lowercase: dhavanikkanzariya
String1: [   ] [Compare] String2: [   ]

String: [   ]   Search String: [   ] [Search]

String : [DhavanikKanzaRiya] [Lower] [Upper] [Length]

Original String: DhavanikKanzaRiya
Uppercase: DHAVANIKKANZARIYA
String1: [   ] [Compare] String2: [   ]

String: [   ]   Search String: [   ] [Search]

String : [DhavanikKanzaRiya] [Lower] [Upper] [Length]

Output: Q4

Original String: Dhavanik
Search String: i
Search string Position is: 6
String1: [   ] [Compare] String2: [   ]

String: [Dhavanik]   Search String: [i]   [Search]

Output: Q5

Original String: Dhvanik Kanzariya
Replaced string is: Dhvanik Kanzariya
String1: [   ] [Compare] String2: [   ]

String: [   ]   Search String: [   ] [Search]

String : [   ]   [Lower] [Upper] [Length]

String1 : [   ]   String2 : [   ]   Seperator : [   ] [Concatinate]

MainString : [Dhvanik Kanzariya]
OldString : [Dhvanik]
NewString : [Dhavanik]
[Replace]

Output: Q6

localhost:3000/main.php

Original String: Dhavanik Kanzariya
No of Vowels is: 7
String1: [_____] Compare String2: [_____]

String: [_____] Search String: [_____] Search

String : [_____] Lower Upper Length

String1 : [_____] String2 : [_____] Seperator : [_____] Concatinate

MainString : [_____]
OldString : [_____]
NewString : [_____]
Replace

String : [Dhavanik Kanzariya] Vowel Count

Output: Q7

localhost:3000/main.php

Start Position: 4
End Position: 150
Skip Position: 23
Result is: 4, 27, 50, 73, 96, 119, 142
String1: [_____] Compare String2: [_____]

String: [_____] Search String: [_____] Search

String : [_____] Lower Upper Length

String1 : [_____] String2 : [_____] Seperator : [_____] Concatinate

MainString : [_____]
OldString : [_____]
NewString : [_____]
Replace

String : [_____] Vowel Count

Start Position : [4] End Position : [150] Skip Position : [23] Compute