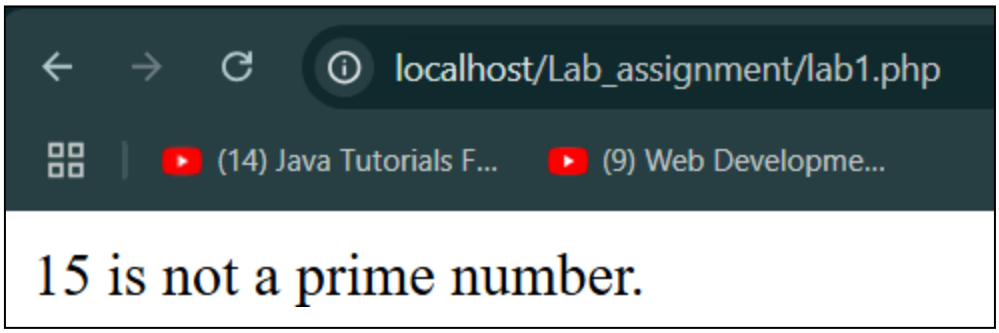
INDEX

1. Write a php script to find whether a given number is a prime or not.

INPUT:

```
<?php
function isPrime($number) {
    if ($number <= 1) {
        return false; // Numbers less than or equal to 1 are not prime
    }
    // Check for factors up to the square root of the number
    for ($i = 2; $i <= sqrt($number); $i++) {
        if ($number % $i == 0) {
            return false; // Found a factor, so not prime
        }
    }
    return true; // No factors found, so it's prime
}
// Test the function with a given number
$number = 15; // Replace with any number you want to check
if (isPrime($number)) {
    echo "$number is a prime number.";
} else {
    echo "$number is not a prime number.";
}
?>
```

OUTPUT:



2. Write a php script to display the fibonacci sequence with html page.

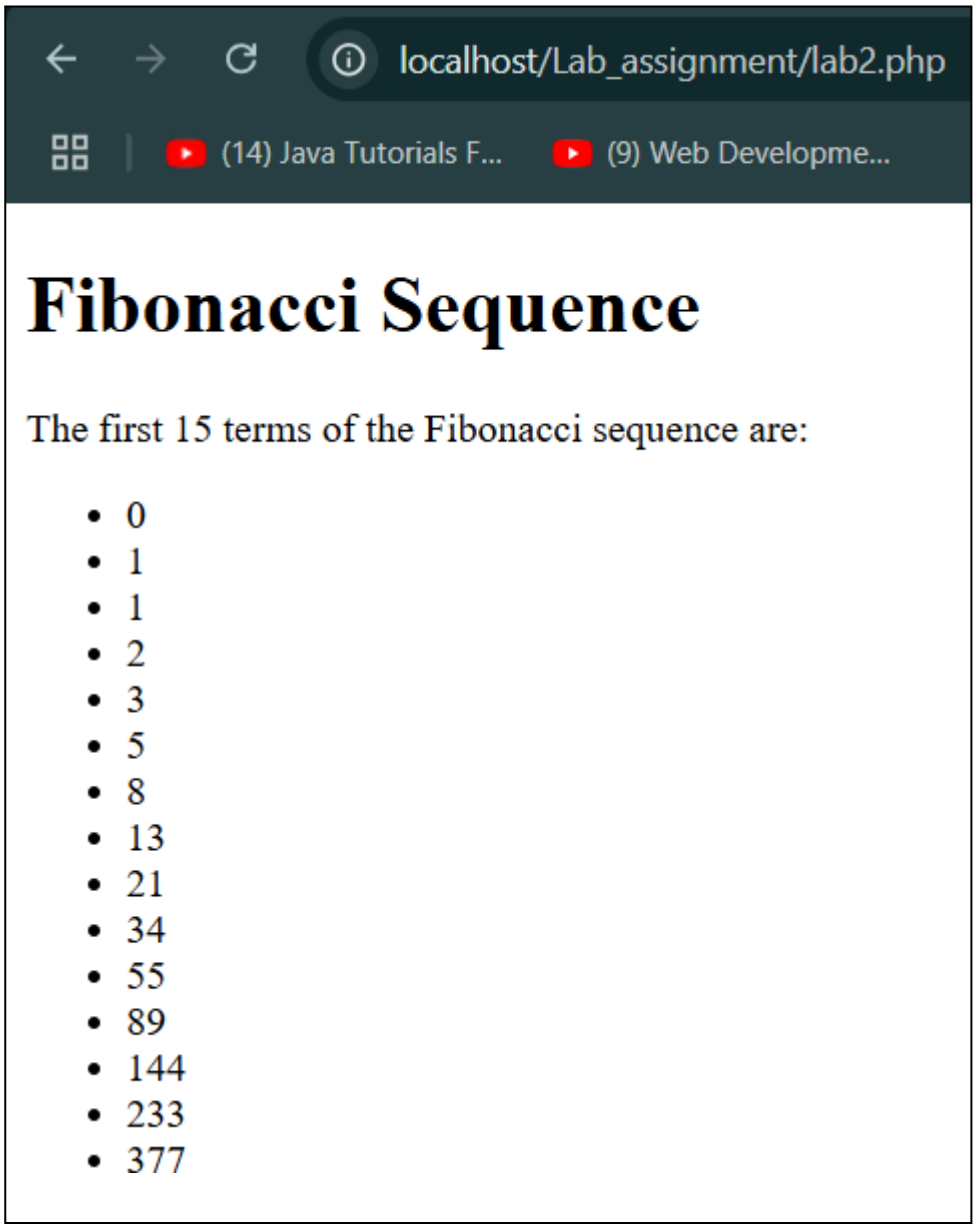
INPUT:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Fibonacci Sequence</title>
</head>
<body>
    <h1>Fibonacci Sequence</h1>
    <?php
    function generateFibonacci($n) {
        $fibSequence = [0, 1]; // Start with the first two numbers of the Fibonacci sequence

        for ($i = 2; $i < $n; $i++) {
            $fibSequence[] = $fibSequence[$i - 1] + $fibSequence[$i - 2];
        }
        return $fibSequence;
    }
    $numTerms = 15; // Number of terms to display, change this as needed
    $fibonacci = generateFibonacci($numTerms);
    echo "<p>The first $numTerms terms of the Fibonacci sequence are:</p>";
```

```
    echo "<ul>";
    foreach ($fibonacci as $term) {
        echo "<li>$term</li>";
    }
    echo "</ul>";
    ?>
</body>
</html>
```

OUTPUT:

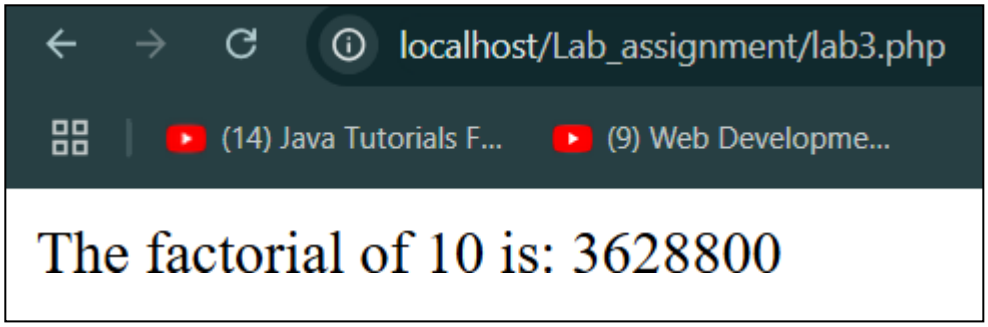


3.write a php script to find the factorial of a number.

INPUT:

```
<?php
function factorial($number) {
    if ($number < 0) {
        return "Invalid input, factorial is not defined for negative numbers.";
    }
    $result = 1;
    for ($i = 1; $i <= $number; $i++) {
        $result *= $i; // Multiply $result by $i in each iteration
    }
    return $result;
}
// Test the function with a given number
$number = 10; // Replace with any number you want to find the factorial of
echo "The factorial of $number is: " . factorial($number);
?>
```

OUTPUT:



4.write a php script to transform a string to lowercase to uppercase.

INPUT:

```
<?php
function transformString($inputString) {
    // Convert the string to uppercase
    $upperCaseString = strtoupper($inputString);
    return $upperCaseString;
}
// Test the function with a sample string
$inputString = "Pritam Pandit!"; // Replace with any string you want to transform
echo "Original String: $inputString<br>";
echo "Transformed String (Uppercase): " . transformString($inputString);
?>
```

OUTPUT:

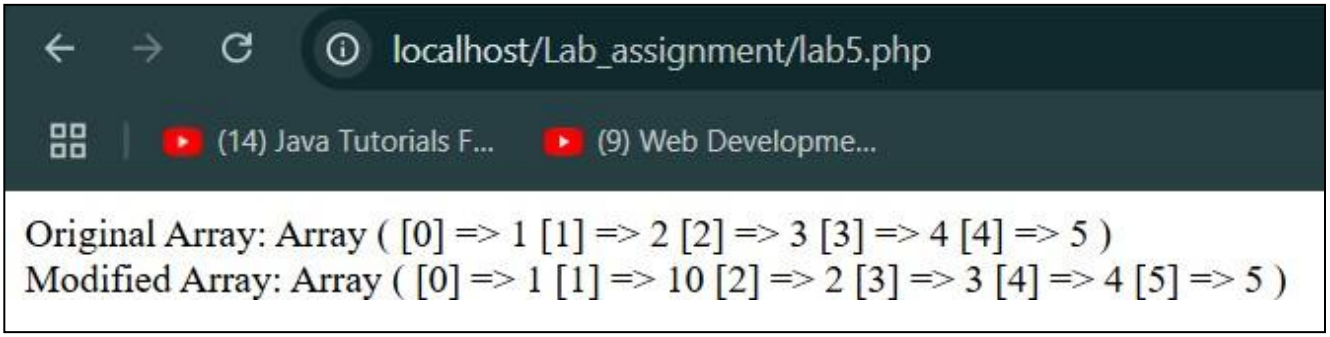
5. write a php script that inserts a new item in an array in any position.

INPUT:

```
<?php
function insertItemAtPosition($array, $newItem, $position) {
    // Ensure the position is within the valid range
    if ($position < 0) {
        $position = 0; // Insert at the start if the position is negative
    } elseif ($position > count($array)) {
        $position = count($array); // Insert at the end if the position is greater than array length
    }
    // Use array_splice to insert the new item at the given position
    array_splice($array, $position, 0, $newItem);
    return $array;
}
// Test the function with a sample array
$originalArray = [1, 2, 3, 4, 5];
$newItem = 10; // The item to insert
$position = 1; // The position where the item should be inserted (0-based index)
$modifiedArray = insertItemAtPosition($originalArray, $newItem, $position);
// Display the result
echo "Original Array: ";
print_r($originalArray);
echo "<br>Modified Array: ";
```

```
print_r($modifiedArray);
?>
```

OUTPUT:



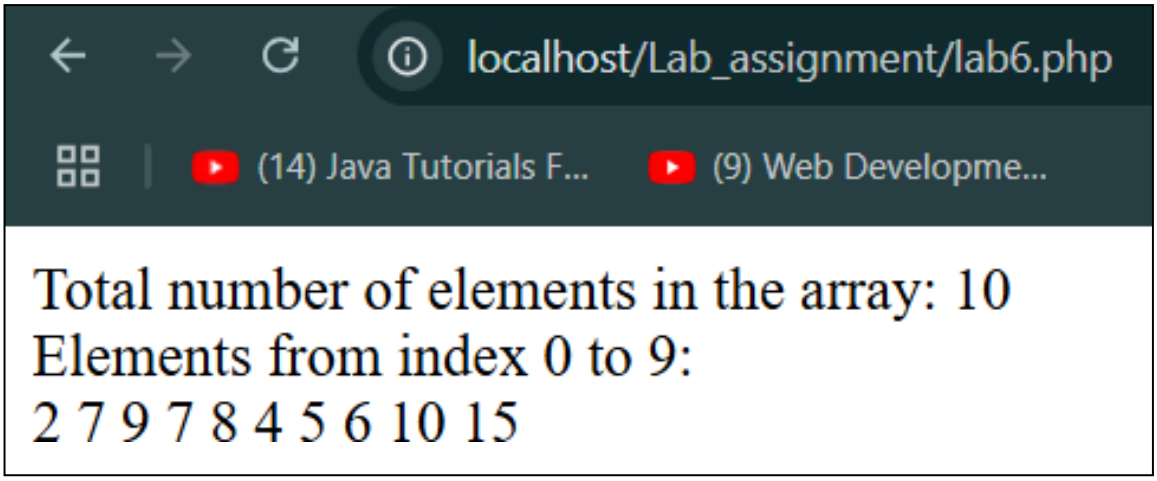
6. write a php script to count a number of elements in an array and display a range of array elements.

INPUT:

```
<?php
function displayArrayInfo($array, $start, $end) {
    // Count the total number of elements in the array
    $count = count($array);
    // Ensure the range is within valid bounds
    if ($start < 0) $start = 0;
    if ($end >= $count) $end = $count - 1;
    // Display the total count
    echo "Total number of elements in the array: $count<br>";
```

```
    // Display the range of elements
    echo "Elements from index $start to $end:<br>";
    for ($i = $start; $i <= $end; $i++) {
        echo $array[$i] . " ";
    }
}
// Test the function with a sample array
$sampleArray = [2,7,9,7,8,4,5,6,10,15];
$startIndex = 0; // The starting index for the range
$endIndex = 9;   // The ending index for the range
displayArrayInfo($sampleArray, $startIndex, $endIndex);
?>
```

OUTPUT:

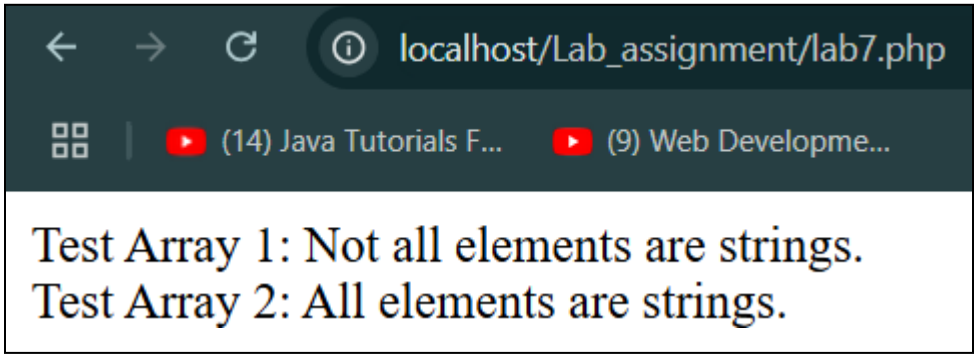


7. write a php function to check all the array values are string or not.

INPUT:

```
<?php
function areAllStrings($array) {
    foreach ($array as $value) {
        if (!is_string($value)) {
            return false; // Return false if any element is not a string
        }
    }
    return true; // Return true if all elements are strings
}
// Test the function with sample arrays
$testArray1 = ["hello", "world", "Pritam", 100]
$testArray2 = ["hello", "coder's"];
echo "Test Array 1: ";
echo areAllStrings($testArray1) ? "All elements are strings." : "Not all elements are strings.";
echo "<br>";
echo "Test Array 2: ";
echo areAllStrings($testArray2) ? "All elements are strings." : "Not all elements are strings.";
?>
```

OUTPUT:

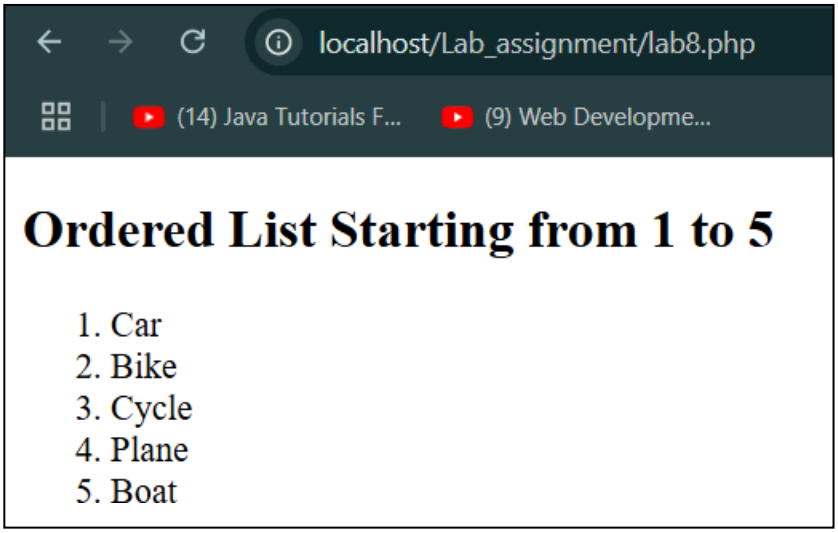


8. design a html page describing an order list wherethe serial number begin from 1-5.

INPUT:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Ordered List Example</title>
</head>
<body>
    <h2>Ordered List Starting from 1 to 5</h2>
    <ol>
        <li>Car</li>
        <li>Bike</li>
        <li>Cycle</li>
        <li>Plane</li>
        <li>Boat</li>
    </ol>
</body>
</html>
```

OUTPUT:



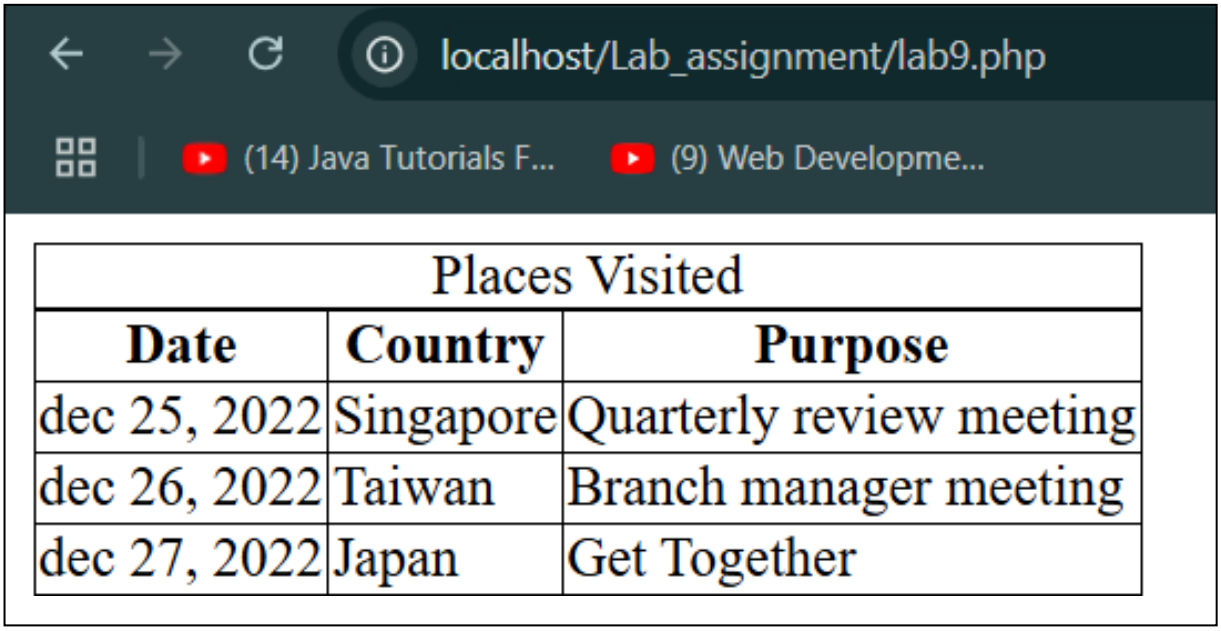
9.Write a html document to draw the following table.

INPUT:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible="IE=”edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>College Name Page</title>
    <style>
       caption, table, th, td{
          border: 1px solid black;
          border-collapse: collapse;
        }
    </style>
</head>
<body>
    <table>
        <caption>Places Visited</caption>
        <tr>
            <th>Date</th>
            <th>Country</th>
            <th>Purpose</th>
        </tr>
        <tr>
            <td>dec 25, 2022</td>
```

```
            <td>Singapore</td>
            <td>Quarterly review meeting</td>
        </tr>
        <tr>
            <td>dec 26, 2022</td>
            <td>Taiwan</td>
            <td>Branch manager meeting</td>
        </tr>
        <tr>
            <td>dec 27, 2022</td>
            <td>Japan</td>
            <td>Get Together</td>
        </tr>
    </table>
</body>
</html>
```

OUTPUT:



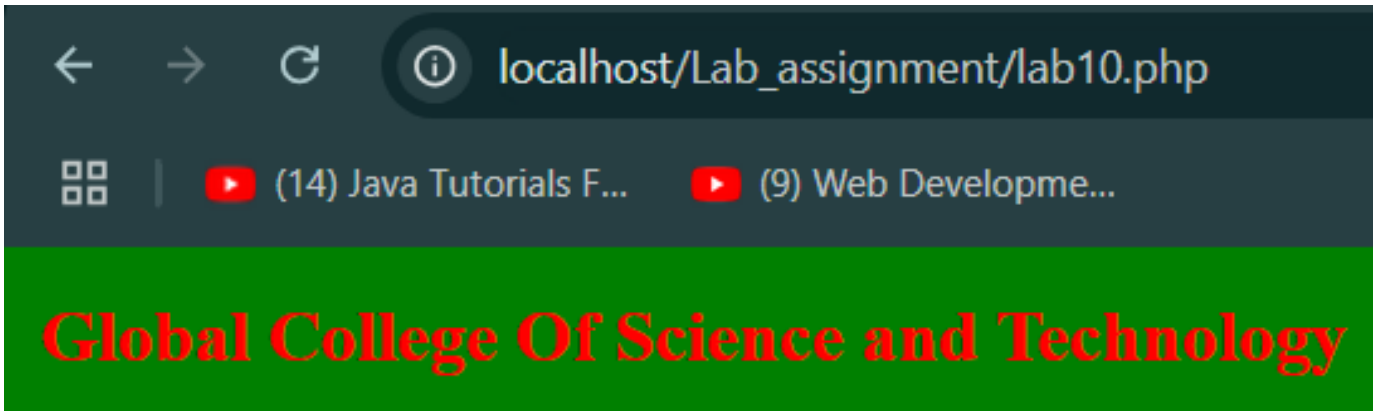
Places Visited		
Date	**Country**	**Purpose**
dec 25, 2022	Singapore	Quarterly review meeting
dec 26, 2022	Taiwan	Branch manager meeting
dec 27, 2022	Japan	Get Together

10. design a html page with your college name where the font color will be red and font size will be 16 and background color will be green.

INPUT:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>College Name Page</title>
    <style>
        body {
            background-color: green; /* Set the background color */
        }
        h1 {
            color: red; /* Set the font color */
            font-size: 16px; /* Set the font size */
        }
    </style>
</head>
<body>
    <h1>Global College of Science and Technology</h1>
</body>
</html>
```

OUTPUT:


localhost/Lab_assignment/lab10.php
(14) Java Tutorials F...
(9) Web Developme...
Global College Of Science and Technology