EX NO:6   **JQUERY**

Aim:

   To run the given program using jquery,html and css.

Questions:

1. Create a web page with a button and a heading, and add the following functionality:
     When the button is clicked, change the text of the heading to say "Hello, World!".
     When the button is clicked again, change the text of the heading back to its original text.
2. Write a JQuery script to count the number of vowels in a string. Get the string input through a textbox

Program:

Question 1:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Toggle Heading Text with jQuery</title>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<style>
   body {
      font-family: Arial, sans-serif;
      text-align: center;
   }
   h1 {
      color: #333;
   }
   button {
      padding: 10px 20px;
      font-size: 16px;
      cursor: pointer;
      background-color: #007bff;
      color: #fff;
      border: none;
      border-radius: 5px;
      transition: background-color 0.3s ease;
   }
   button:hover {
      background-color: #0056b3;
   }
</style>
</head>
```

```
<body>

<h1 id="heading">Original Heading Text</h1>
<button id="toggleButton">Toggle Text</button>

<script>
   $(document).ready(function() {
      $('#toggleButton').click(function() {
         var heading = $('#heading');
         if (heading.text() === 'Original Heading Text') {
            heading.text('Hello, World!');
         } else {
            heading.text('Original Heading Text');
         }
      });
   });
</script>

</body>
</html>
```

Question:2

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Count Vowels</title>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<style>
   body {
      font-family: Arial, sans-serif;
      text-align: center;
   }
   input[type="text"] {
      padding: 10px;
      font-size: 16px;
      border-radius: 5px;
      border: 1px solid #ccc;
      margin-bottom: 10px;
   }
   button {
      padding: 10px 20px;
      font-size: 16px;
      cursor: pointer;
      background-color: #007bff;
      color: #fff;
      border: none;
```

```
      border-radius: 5px;
      transition: background-color 0.3s ease;
    }
    button:hover {
      background-color: #0056b3;
    }
</style>
</head>
<body>

<input type="text" id="inputString" placeholder="Enter a string">
<button id="countButton">Count Vowels</button>
<p id="vowelCount">Number of vowels: </p>

<script>
   $(document).ready(function() {
      $('#countButton').click(function() {
         var inputString = $('#inputString').val().toLowerCase();
         var vowels = inputString.match(/[aeiou]/g);
         var vowelCount = vowels ? vowels.length : 0;
         $('#vowelCount').text("Number of vowels: " + vowelCount);
      });
   });
</script>

</body>
</html>
```
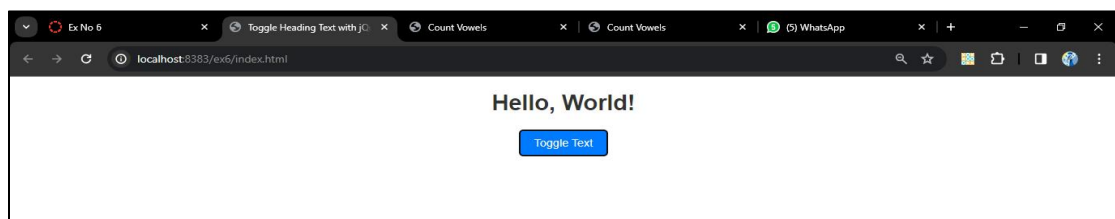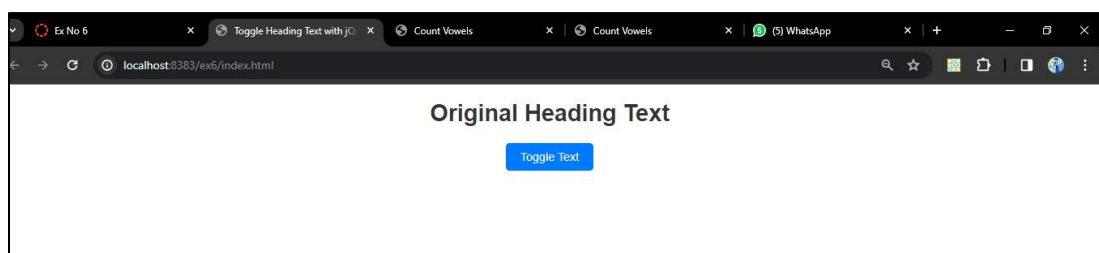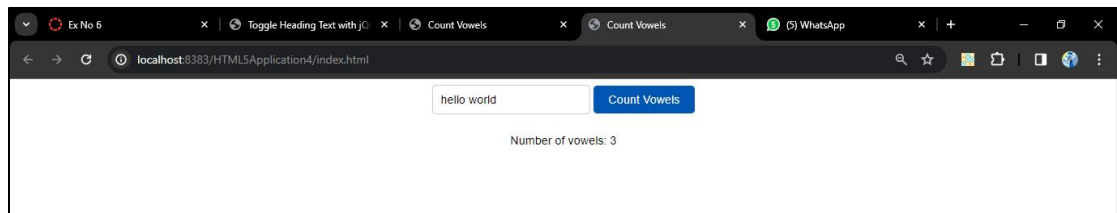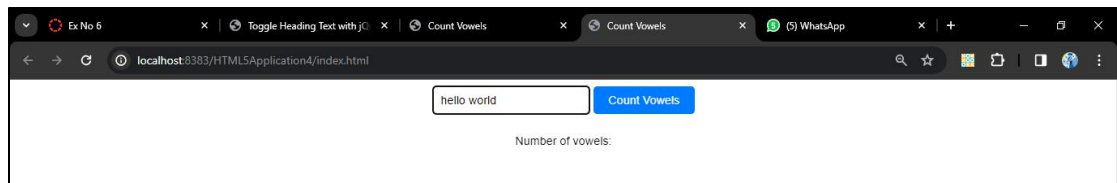
Output:

Result:

Thus the web page is created successfully using Jquery concept.