

**EX.NO:06**

**JQUERY**

**DATE:**

**1. Create a web page with an image and a button, and add the following functionality:**

- **When the button is clicked, fade out the image over 2 seconds.**
- **After the image has faded out, change the source of the image to a new image.**
- **Fade in the new image over 2 seconds.**

**AIM:**

To Create a webpage where clicking a button fades out an image over 2 seconds, changes its source to a new image, then fades in the new image over another 2 seconds.

**ALGORITHM:**

1. Fade out the visible image using `fadeOut()` function over a duration of 2000 milliseconds.
2. Once the fade out animation completes, change the source of the image to the new image using `attr()` function.
3. Fade in the new image using `fadeIn()` function over a duration of 2000 milliseconds.
4. Optionally, hide the button after the transition completes.

Ensure that jQuery library is included in the head section of the HTML file.

**PROGRAM:**

```
/*
Create a web page with an image and a button, and add the following
functionality:
* When the button is clicked, fade out the image over 2 seconds.
* After the image has faded out, change the source of the image to a new
image.
* Fade in the new image over 2 seconds.
*/
<!DOCTYPE html>
<html>
<head>
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></scrip
t>
</head>
<body style="background-color: white; color: black;">
    <center>
    <h1>Welcome!</h1>
    <h3>To change the image displaying, click the fade button..</h3>
     <br> <br>
```

```

<button id="bt">fade</button>
</center>
<script>
    $(document).ready(function(){
        $("#bt").click(function(){
            $("#img").fadeOut(2000, function(){
                $(this).attr("src","pokemon_2.jpg");
                $(this).fadeIn(2000);
                $("#bt").hide();
            });
        });
    });
</script>
</body>
</html>
```

### OUTPUT:

**Welcome!**

To change the image displaying, click the fade button..



**Welcome!**

To change the image displaying, click the fade button..



## 2) Write a jQuery function to check whether a string is an anagram or not.

### AIM:

The aim of this code is to create a web page interface using HTML and jQuery to allow users to input two strings and determine whether they are anagrams of each other.

### ALGORITHM:

1. Prompt the user to input two words.
2. Check if both input fields are filled. If any field is empty, display an alert and stop.
3. Separate each word into individual characters.
4. Sort the characters of both words alphabetically.
5. Compare the sorted characters of both words.
6. If they match exactly, the words are anagrams. If they don't match, the words are not anagrams.
7. Display a message to the user indicating whether the words are anagrams or not.

### PROGRAM:

```
<!DOCTYPE html>
<html>
<head>
  <title>Anagram Checker</title>
  <script src="https://code.jquery.com/jquery-3.7.1.min.js"></script>
</head>
<body style="background-color: white;">
  <center>
    <h1>jQuery Program</h1>
    <h2>To check whether a given string is an anagram or not</h2>
    Enter Word 1: <input type="text" id="str1"><br><br>
    Enter Word 2: <input type="text" id="str2"><br><br>
    <button id="checkBtn" style="height: 25px; width: 90px; font-size:
medium; font-style: italic;">Check</button><br><br>
    <label id="result" style="visibility: hidden"></label>
  </center>
  <script>
    $(document).ready(function(){
      $("#checkBtn").click(function(){
        const str1 = $("#str1").val();
        const str2 = $("#str2").val();
        if(str1 === "" || str2 === "") {
          alert("Kindly enter two words.");
        } else {
          const sortedStr1 = str1.split("").sort().join("");
          const sortedStr2 = str2.split('').sort().join('');
```

```

        $("#result").css("visibility", "visible");
        if(sortedStr1 === sortedStr2) {
            $("#result").css("color", "black");
            $("#result").text("Given words are Anagrams!");
        } else {
            $("#result").css("color", "red");
            $("#result").text("Given words are not Anagrams!");
        }
    }
});
</script>
</body>
</html>

```

### OUTPUT:

## Jquery Program

**To check whether a given string is an anagram or not**

Enter Word 1:

Enter Word 2:

*Check*

Given words are Anagrams!

## Jquery Program

**To check whether a given string is an anagram or not**

Enter Word 1:

Enter Word 2:

*Check*

Given words are not Anagrams!

Code &Output(20)	
Quiz(5)	
Timely Submission(5)	
Total(30)	
Initial	

**RESULT:**

Thus the program has been implemented and executed for the given problem using HTML page and jquery and output is veified.