

1. What is jQuery?

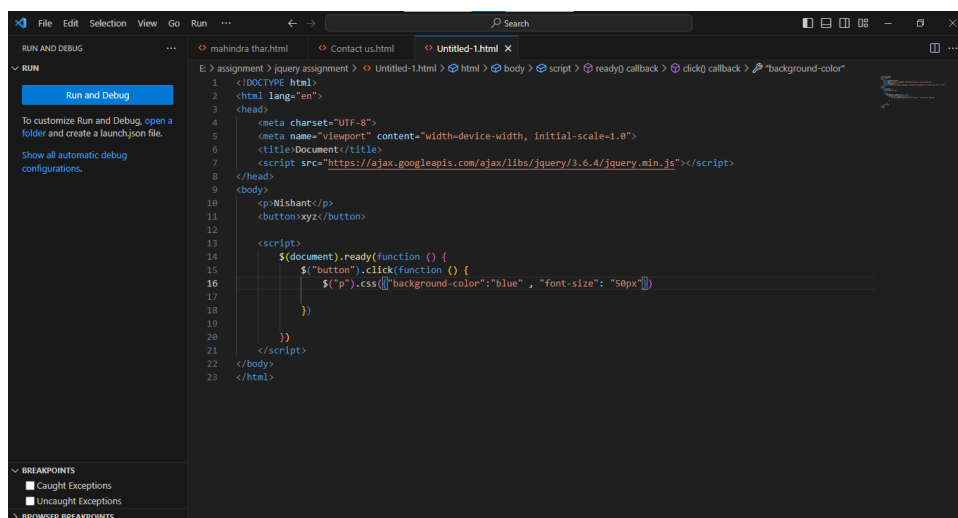
Ans: jQuery is a popular open-source JavaScript library.

- The purpose of jQuery is to make it much easier to use JavaScript on your website.

2. How to apply CSS Using jQuery, How to Add Class and Remove Class in jQuery, jQuery Animation?

Ans: To Apply CSS Using jQuery is simple steps to follow:

- First of All we are Write code for jQuery.
- For adding CSS, we must have to use .css ({"background-colour": "black", "font size": "50px"}) this CSS property.
- Example:

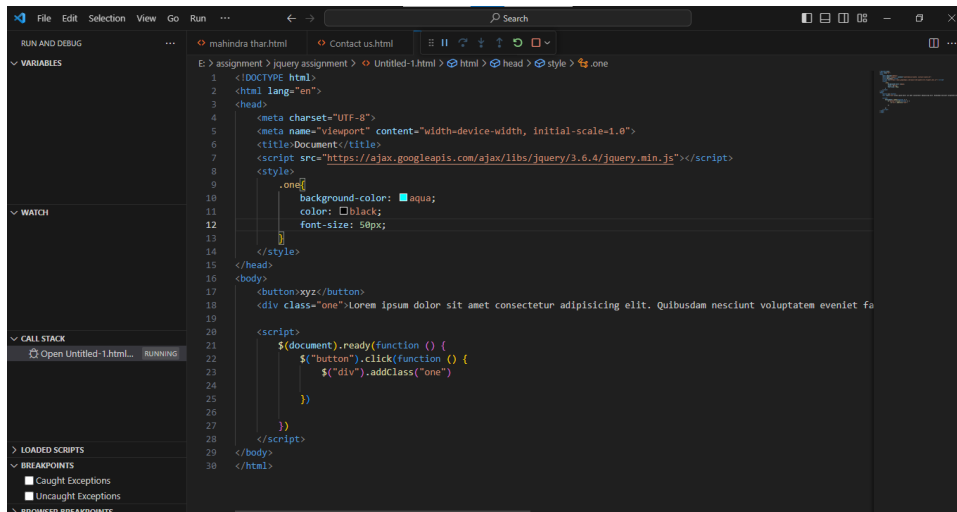
A screenshot of a code editor window with a dark theme. The editor shows an HTML file named 'Untitled-1.html'. The code includes a DOCTYPE declaration, HTML and head tags, a meta charset, a viewport meta tag, a title, and a script tag linking to jQuery. In the body, there is a paragraph with a button. A jQuery script is attached to the button's click event, which calls the .css() method to change the background color to 'blue' and the font size to '50px' of the selected paragraph. The left sidebar shows the 'RUN AND DEBUG' panel with a 'Run and Debug' button and instructions. The bottom left shows 'BREAKPOINTS' and 'BROWSER BREAKPOINTS' sections.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>
8 </head>
9 <body>
10  <p>Nishant</p>
11  <button>xyz</button>
12
13  <script>
14    $(document).ready(function () {
15      $("button").click(function () {
16        $("p").css({"background-color": "blue", "font-size": "50px"})
17      })
18    })
19  </script>
20
21 </body>
22 </html>
```

- How to Add Class and Remove Class in jQuery,

Ans:

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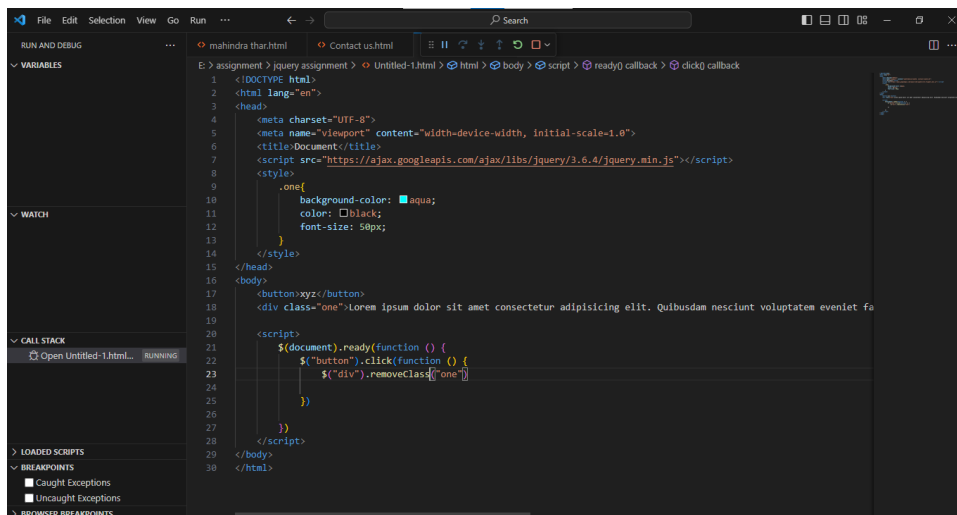
Add class is used to Add one and more classes to selected Elements

- Example: Frist we want to add class in tags we are following some steps. For adding class to html use jQuery.

In same method to remove class from the “div”

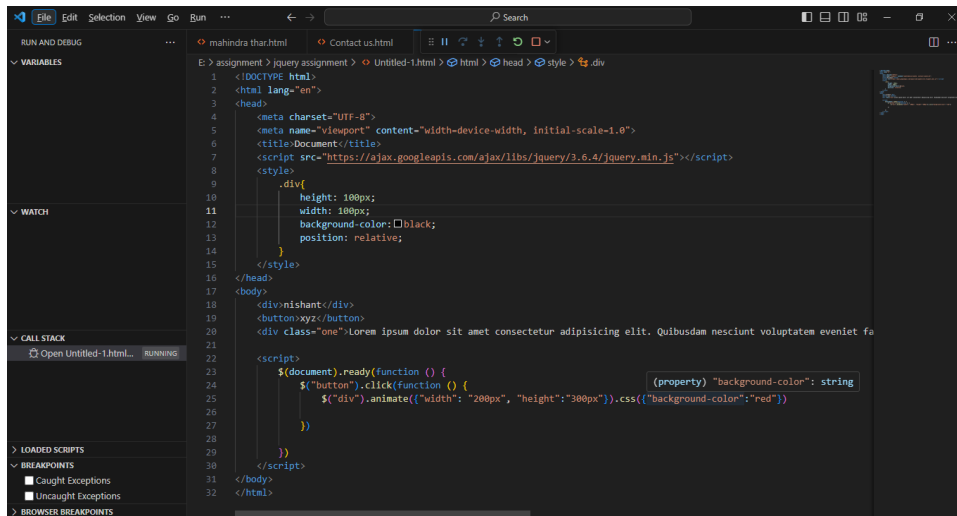
We must use this following step:

- Example:



- jQuery Animation:

Ans: jQuery Animation method is used to create Animation for Html. Using Animate () Syntax to Apply Animation.

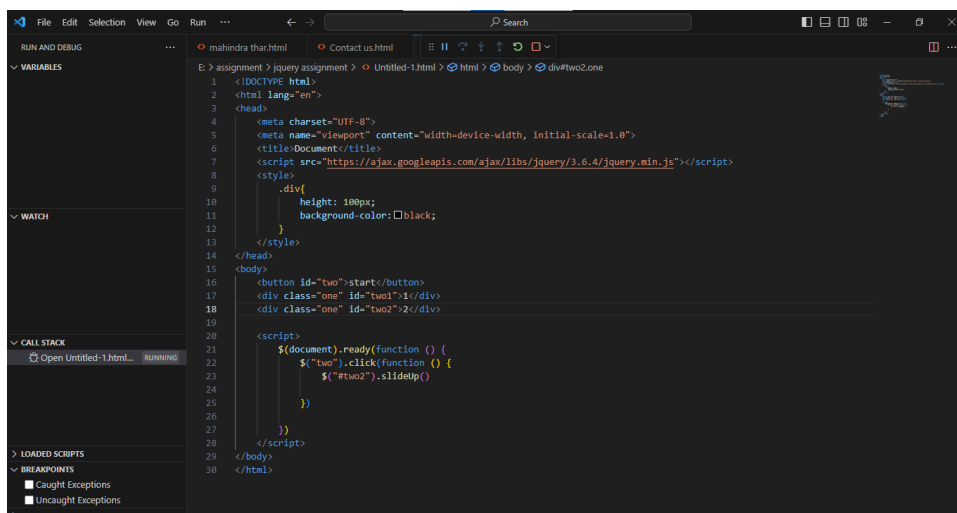
A screenshot of a code editor with a dark theme. The editor shows an HTML document with a jQuery animation. The code includes a meta charset, viewport, and title in the head. The body contains a div with a height of 100px, width of 100px, black background, and relative position. A button with class 'one' contains placeholder text. A script at the bottom uses jQuery to click the button and animate the div to a width of 200px, height of 300px, and red background color.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>
8   <style>
9     .div{
10       height: 100px;
11       width: 100px;
12       background-color: black;
13       position: relative;
14     }
15   </style>
16 </head>
17 <body>
18   <div>mishant</div>
19   <button>xyz</button>
20   <div class="one">Lorem ipsum dolor sit amet consectetur adipisicing elit. Quibusdam nesciunt voluptatem eveniet fa
21
22   <script>
23     $(document).ready(function () {
24       $("button").click(function () {
25         $(".div").animate({width: "200px", "height": "300px"}, 1000, {background-color: "red"});
26       });
27     });
28   </script>
29 </body>
30 </html>
```

3.How to create slider with animation?

Ans: With jQuery you can create a sliding effect on elements.

- slide Up ():-The jQuery slide Up () is used to slide up an element.
- Example:

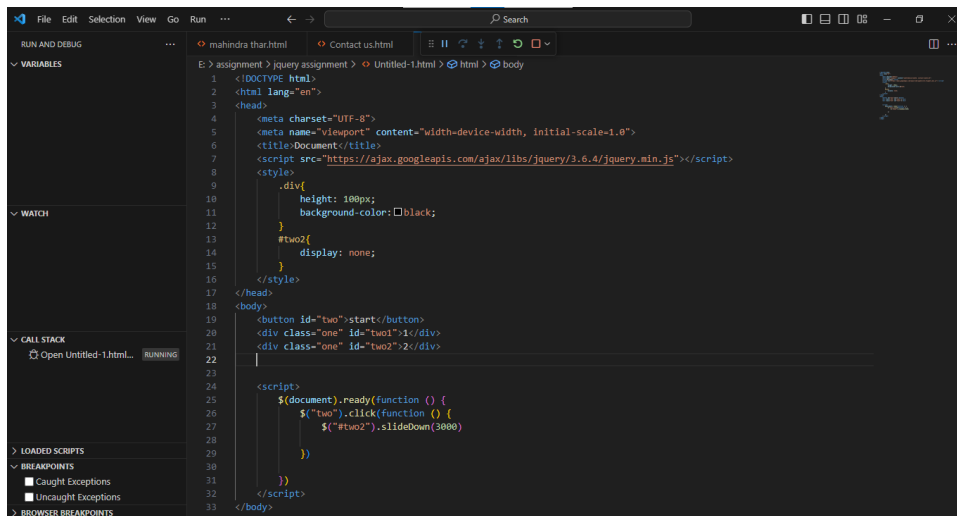
A screenshot of a code editor with a dark theme. The editor shows an HTML document with a jQuery slideUp() animation. The code includes a meta charset, viewport, and title in the head. The body contains a button with id 'two' and two divs with class 'one' and id 'two1' and 'two2'. A script at the bottom uses jQuery to click the button and slide up the div with id 'two2'.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>
8   <style>
9     .div{
10       height: 100px;
11       background-color: black;
12     }
13   </style>
14 </head>
15 <body>
16   <button id="two">start</button>
17   <div class="one" id="two1">1</div>
18   <div class="one" id="two2">2</div>
19
20   <script>
21     $(document).ready(function () {
22       $("button").click(function () {
23         $("#two2").slideUp();
24       });
25     });
26   </script>
27 </body>
28 </html>
```

- SlideDown() :- The jQuery slideDown() is used to slide down an element.

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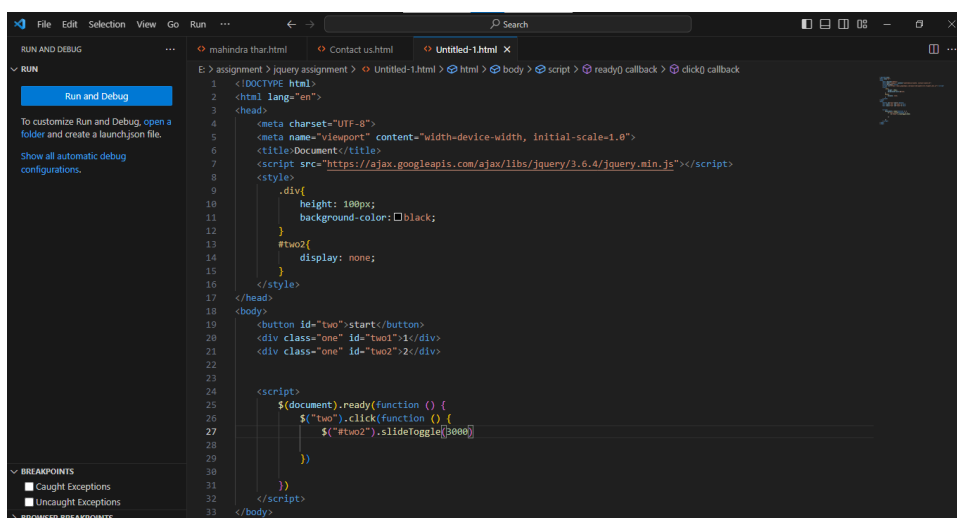
- Example:



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>
8   <style>
9     .div{
10       height: 100px;
11       background-color: black;
12     }
13     #two2{
14       display: none;
15     }
16   </style>
17 </head>
18 <body>
19   <button id="two">start</button>
20   <div class="one" id="two1">1</div>
21   <div class="one" id="two2">2</div>
22
23
24   <script>
25     $(document).ready(function () {
26       $("#two").click(function () {
27         $("#two2").slideDown(3000)
28       })
29     })
30   </script>
31 </body>
32 </html>
```

- SlideToggle() :-The jQuery slideToggle() combination of both slideDown() and slideUp() methods.

- Example:



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>
8   <style>
9     .div{
10       height: 100px;
11       background-color: black;
12     }
13     #two2{
14       display: none;
15     }
16   </style>
17 </head>
18 <body>
19   <button id="two">start</button>
20   <div class="one" id="two1">1</div>
21   <div class="one" id="two2">2</div>
22
23
24   <script>
25     $(document).ready(function () {
26       $("#two").click(function () {
27         $("#two2").slideToggle(3000)
28       })
29     })
30   </script>
31 </body>
32 </html>
```

4.Event bubbling tickling example

Ans:

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The screenshot shows the VS Code editor interface. The main editor area displays an HTML file named 'Untitled-1.html'. The code is as follows:

```

12 </script>
13 <style>
14   body {
15     border: 2px solid red(255, 0, 0);
16     padding: 10px;
17     display: block;
18   }
19   body{
20     padding: 0 30% 1% 1%;
21     color: red;
22   }
23 </style>
24 </head>
25 <body>
26   <body (great-great-grandparent)>
27     <div>
28       <div(great-parent)>
29         <ul>
30           <li>
31             <li>
32               <li>
33                 <li>
34                   <span style="border: 2px solid black;">
35                     <span>
36                       </span>
37                     </li>
38                   </ul>
39                 </div>
40               </body>
41             </html>

```

The left sidebar shows the 'RUN AND DEBUG' panel. The 'VARIABLES' section is expanded, showing the execution flow from 'assignment' to 'jQuery assignment' to 'body' to 'div' to 'ul' to 'li'. The 'WATCH' section is also expanded, showing the execution flow from 'assignment' to 'jQuery assignment' to 'body' to 'div' to 'ul' to 'li'. The 'CALL STACK' section is expanded, showing the execution flow from 'assignment' to 'jQuery assignment' to 'body' to 'div' to 'ul' to 'li'. The 'LOADED SCRIPTS' section is expanded, showing the execution flow from 'assignment' to 'jQuery assignment' to 'body' to 'div' to 'ul' to 'li'. The 'BREAKPOINTS' section is expanded, showing the execution flow from 'assignment' to 'jQuery assignment' to 'body' to 'div' to 'ul' to 'li'. The 'BROWSER BREAKPOINTS' section is expanded, showing the execution flow from 'assignment' to 'jQuery assignment' to 'body' to 'div' to 'ul' to 'li'.