

### Assignment - 3

Subject: CSW-1 (CSE 2141)

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Section: 23412G1

Branch: B.Tech (CSE)

Q1. Create a webpage using jQuery that contains three buttons to change the background color of the entire page to red, blue, or green, depending on which button is clicked. Additionally, add a separate button that toggles the visibility of all

elements on the page. When the toggle button is clicked, the elements should either be shown or hidden based on their current visibility state. Ensure that the background color change and visibility toggle functionalities work smoothly together.

```
<html>
<head>

  <title>Anupam Chandra 2341003015 2NOV Q1</title>
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
  <script>
    $(document).ready(function() {

      $('#yellowButton').click(function() {
```

```

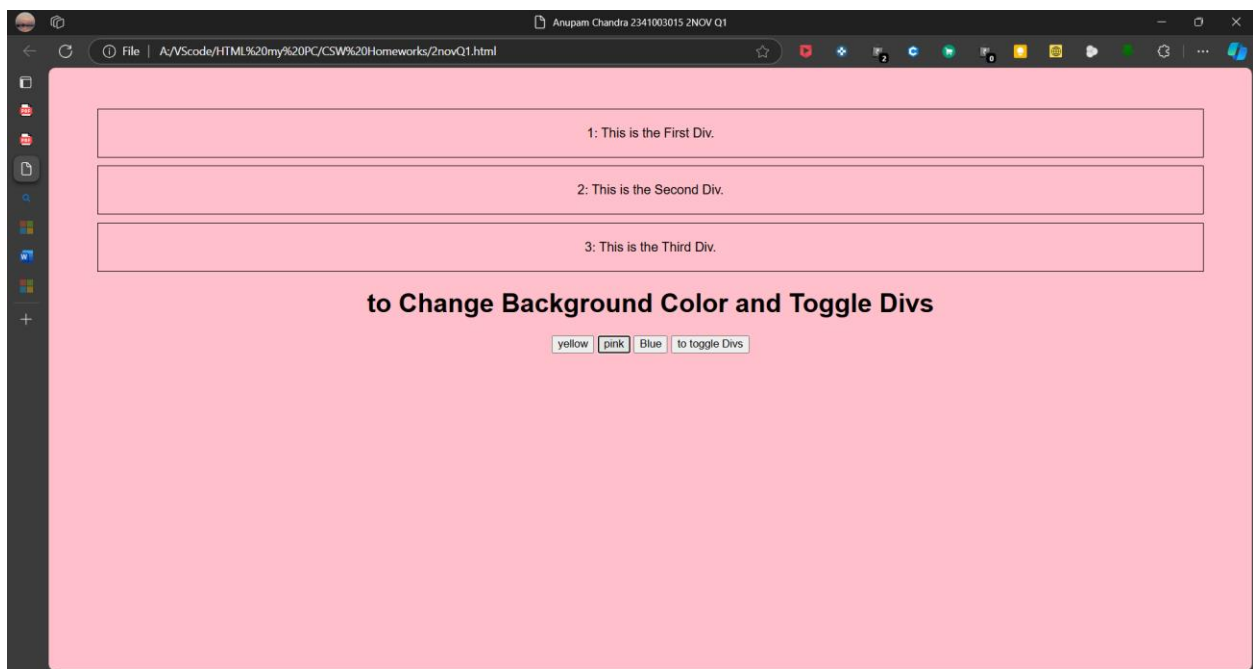
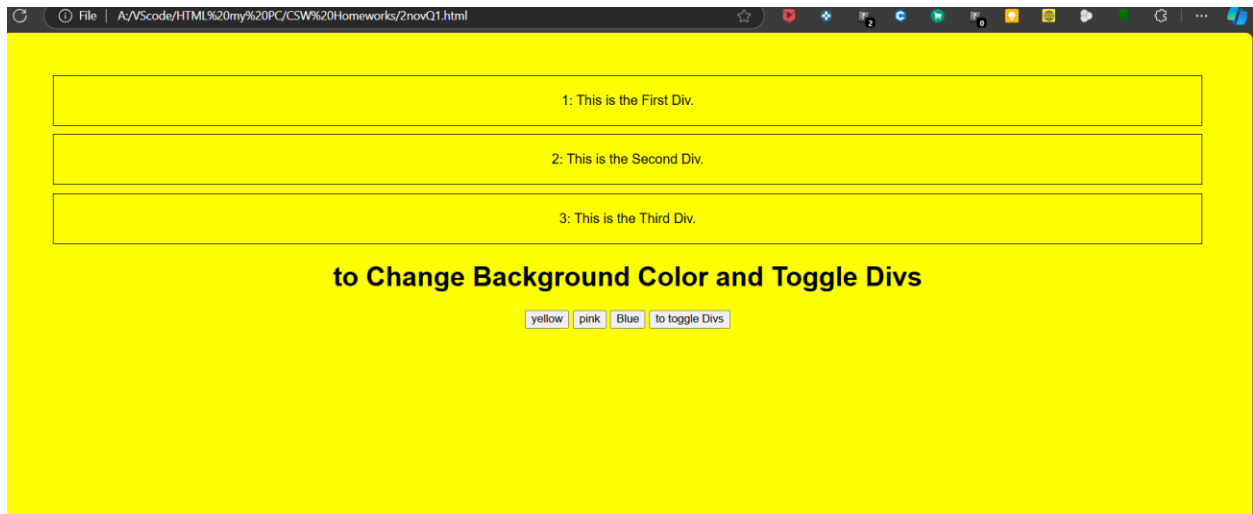
        $('body').css('background-color', 'yellow');
    });

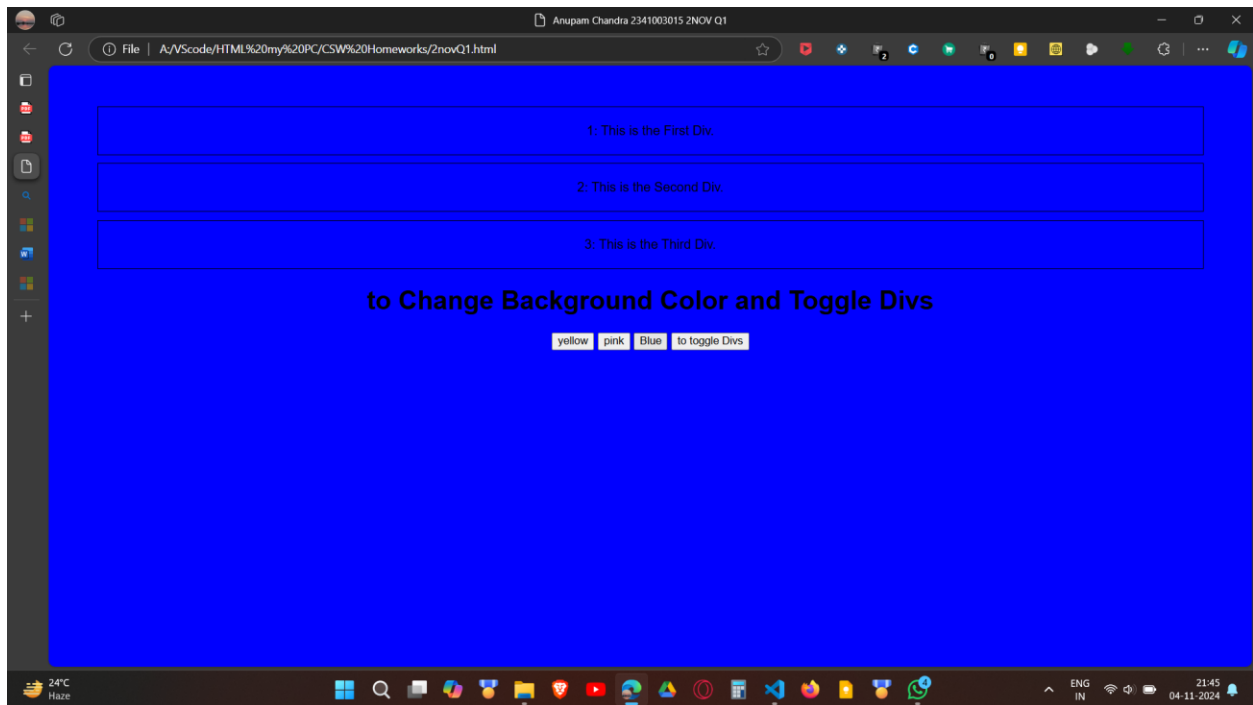
    $('#blueButton').click(function() {
        $('body').css('background-color', 'blue');
    });

    $('#pinkButton').click(function() {
        $('body').css('background-color', 'pink');
    });

    $('#toggleDivsButton').click(function() {
        $('div').toggle();
    });
});
</script>
<style>
    body {
        font-family: Arial, sans-serif;
        text-align: center;
        margin: 50px;
    }
    div {
        margin: 10px;
        padding: 20px;
        border: 1px solid black;
    }
</style>
</head>
<body>
<div>1: This is the First Div.</div>
<div>2: This is the Second Div.</div>
<div>3: This is the Third Div.</div>
<h1>to Change Background Color and Toggle Divs</h1>
<button id="yellowButton">yellow</button>
<button id="pinkButton">pink</button>
<button id="blueButton">Blue</button>
<button id="toggleDivsButton"> to toggle Divs</button>
</body>
</html>

```





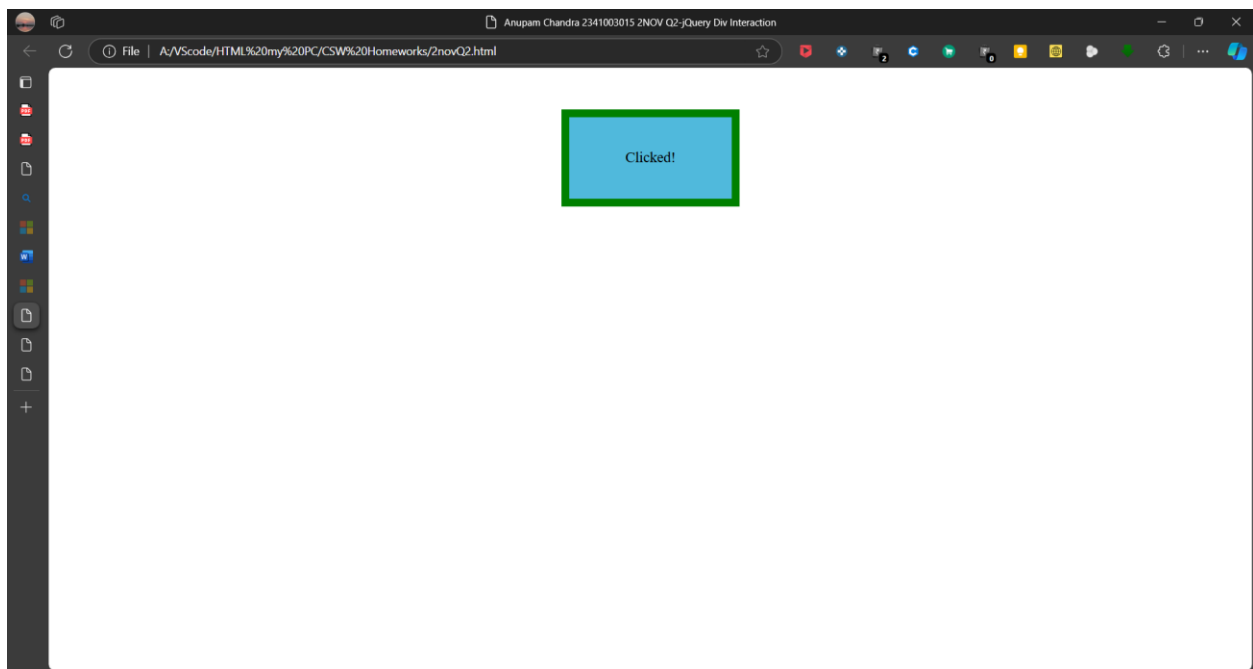
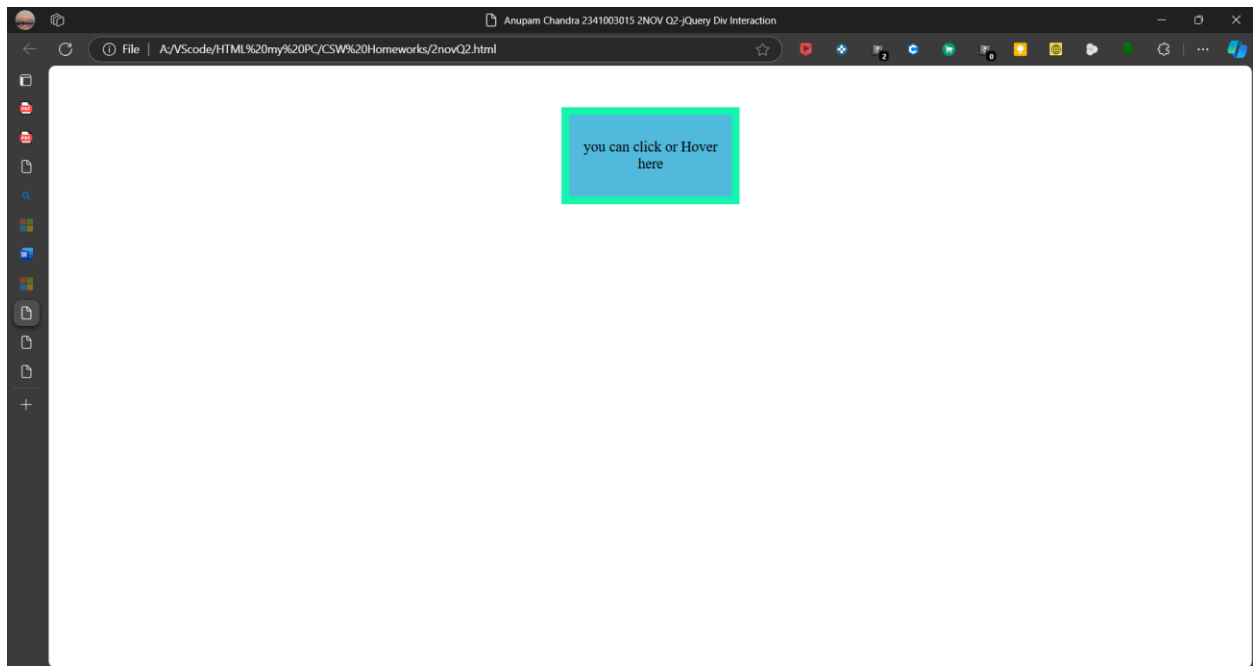
Q2. Write a jQuery program to perform the following actions on a  
element: when the user clicks on the  
, its text should change to 'Clicked!'; when the user double clicks, the background color  
should change to orange; when the user hovers (mouse enters) over the  
, the border color should change to green; and when the user moves the mouse away  
(mouse leaves), the border color should revert to black. The  
should initially have a light blue background, a black border, and centered text.

CODE:

```
<html>
<head>
  <title>Anupam Chandra 2341003015 2NOV Q2-jQuery Div Interaction</title>
  <style>
    #interactiveDiv {
      width: 200px;
      height: 100px;
      background-color: rgb(80, 185, 220);
      border: 10px solid rgb(22, 243, 176);
      display: flex;
      align-items: center;
```

```
        justify-content: center;
        text-align: center;
        font-size: 18px;
        margin: 51px auto;
    }
</style>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script>
    $(document).ready(function() {
        $("#interactiveDiv").click(function() {
            $(this).text("Clicked!");
        });
        $("#interactiveDiv").dblclick(function() {
            $(this).css("background-color", "pink");
        });
        $("#interactiveDiv").mouseenter(function() {
            $(this).css("border-color", "green");
        });
        $("#interactiveDiv").mouseleave(function() {
            $(this).css("border-color", "blue");
        });
    });
</script>
</head>
<body>
<div id="interactiveDiv">you can click or Hover here</div>
</body>
</html>
```

OUTPUT:



Q3. Write a jQuery program that starts an animation on a element when a 'Start' button is clicked and stops the animation when a 'Stop' button is clicked. The animation should

increase the width of the from 100px to 400px over 2 seconds. If the 'Stop' button is clicked during the animation, the should immediately stop resizing at its current width.

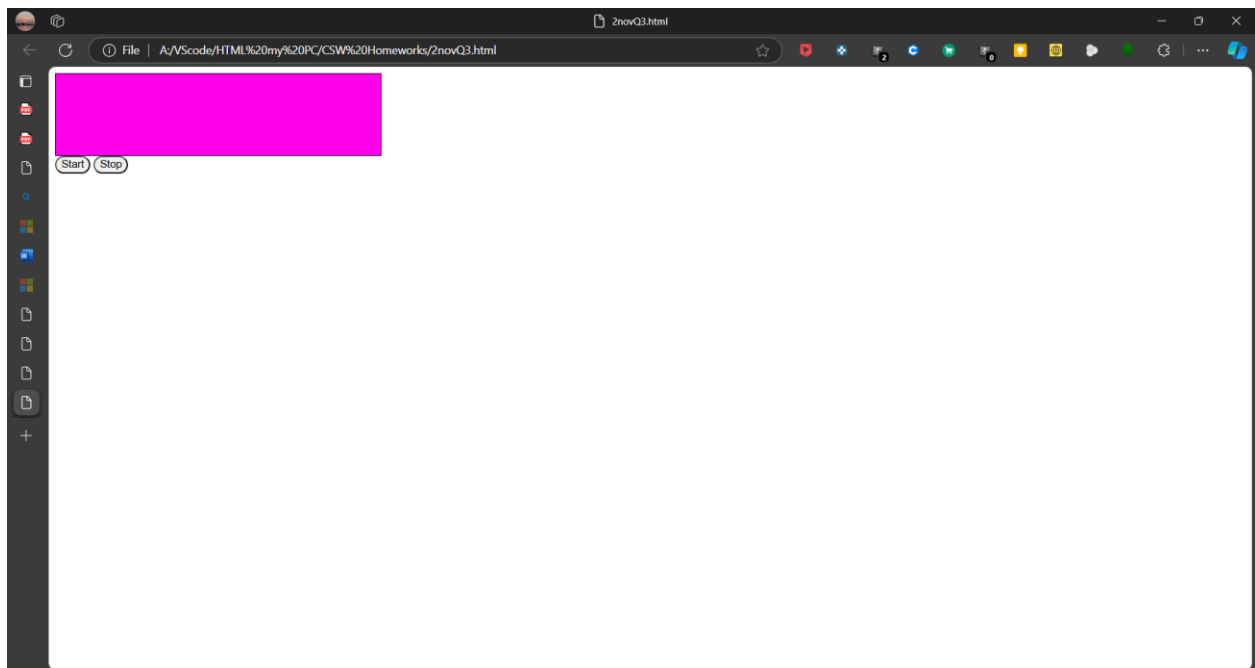
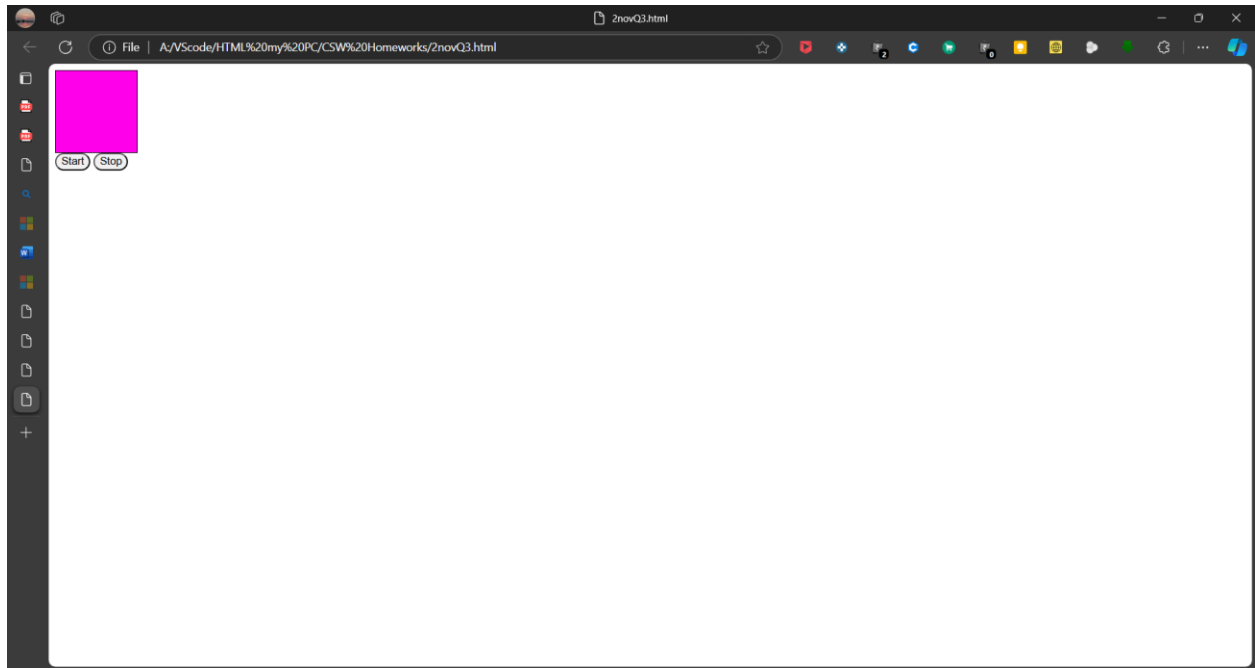
```
<html>
<head>
  <title>Anupam Chandra 2341003015 2NOV Q3</title>
<style>
div {
  width: 100px;
  height: 100px;
  background-color: rgb(255, 0, 234);
  border: 1px solid black;
  transition: width 2s;
}
button{

  border-radius: 30px;
}
</style>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("#start").click(function(){
    $("#div1").animate({
      width: "400px"
    }, 2000);
  });
  $("#stop").click(function(){
    $("#div1").stop();
  });
});
</script>
</head>
<body>

<div id="div1"></div>

<button id="start">Start</button>
<button id="stop">Stop</button>

</body>
</html>
```



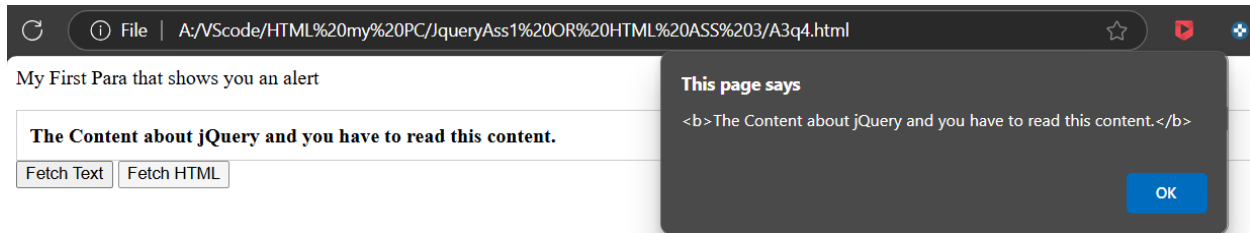
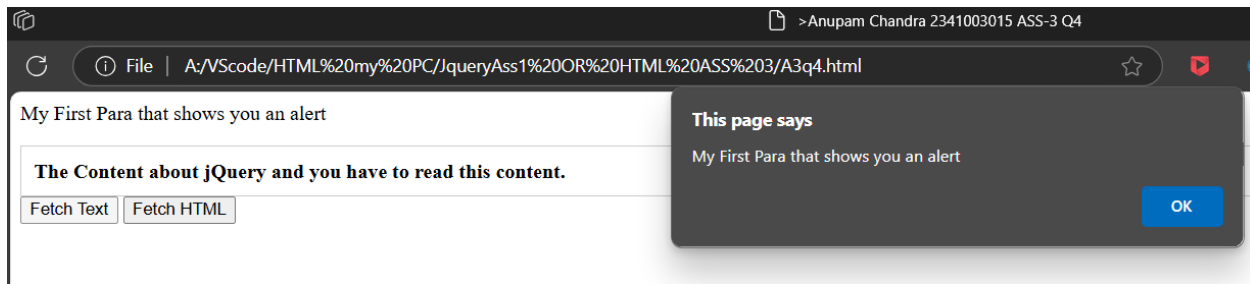


Q4. Write a jQuery program with two buttons: one button labeled 'Fetch Text' to retrieve and display the text content of a

element using an alert, and another button labeled 'Fetch HTML' to retrieve and display the HTML content of a

element using an alert.

```
<html>
<head>
<title>>Anupam Chandra 2341003015 ASS-3 Q4</title>
<style>
#content {
padding: 10px;
border: 1px solid #ccc;
}
</style>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
<script>
$(document).ready(function() {
$('#fText').click(function() {
alert($('#myPara').text());
});
$('#fHtml').click(function() {
alert($('#content').html());
});
});
</script>
</head>
<body>
<p id="myPara">My First Para that shows you an alert</p>
<div id="content"><b>The Content about jQuery and you have to read this
content.</b></div>
<button id="fText">Fetch Text</button>
<button id="fHtml">Fetch HTML</button>
</body>
</html>
```



Q5. Write a jQuery program to manipulate an unordered list (

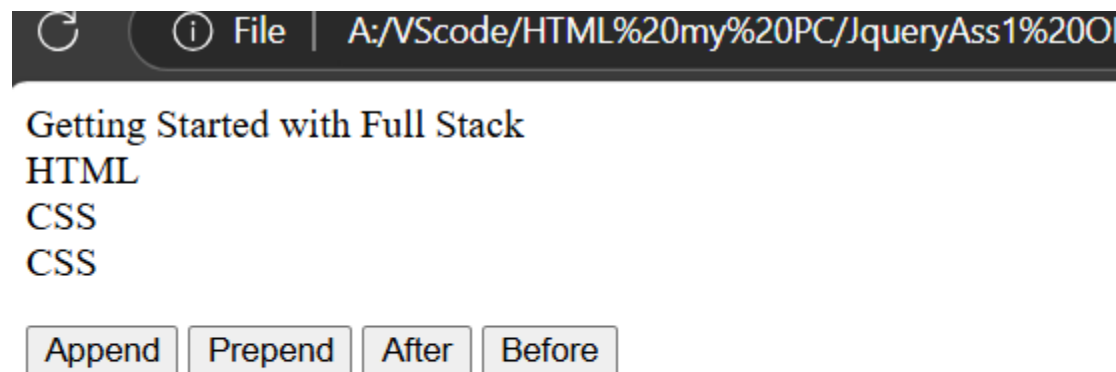
) containing the items 'Getting Started with Full Stack,' 'HTML,' and 'CSS.' Use the append() method to add a new list item 'CSS' at the end of the list, the prepend() method to add 'Introduction to Full Stack Development' at the beginning, the after() method to insert a paragraph 'Topics updated' immediately after the list, and the before() method to add a heading 'List of Topics Covered' immediately before the list.

```
<html>
<head>
<title>>Anupam Chandra 2341003015 ASS-3 Q5</title>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
<style>
ul {
list-style-type: none;
padding: 0;
}
</style>
<script>
$(document).ready(function() {
$("#button1").click(function(){
$("ul").append('<li>CSS</li>');
});
});
```

```

$("#button2").click(function(){
$("ul").prepend('<li>Introduction to Full Stack Development</li>');
});
$("#button3").click(function(){
$("ul").after('<p>Topics updated</p>');
});
$("#button4").click(function(){
$("ul").before('<h2>List of Topics Covered</h2>');
});
});
</script>
</head>
<body>
<ul>
<li>Getting Started with Full Stack</li>
<li>HTML</li>
<li>CSS</li>
</ul>
<button id="button1">Append</button>
<button id="button2">Prepend</button>
<button id="button3">After</button>
<button id="button4">Before</button>
</body>
</html>

```



---

Introduction to Full Stack Development

Getting Started with Full Stack

HTML

CSS

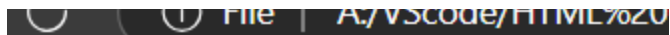
CSS

Append

Prepend

After

Before



File | A:/VScode/HTML%20

Introduction to Full Stack Development

Getting Started with Full Stack

HTML

CSS

CSS

Topics updated

Append

Prepend

After

Before

Q6. Write a jQuery program that lets a user apply one of two classes ('highlight' and 'dim') to a element by clicking two different buttons. The 'highlight' class should set the background color of the to yellow, while the 'dim' class should reduce the opacity of the . Ensure that clicking the 'Add Highlight' button applies the 'highlight' class, and clicking the 'Add Dim' button applies the 'dim' class, with the previously applied class being removed before the new one is added.

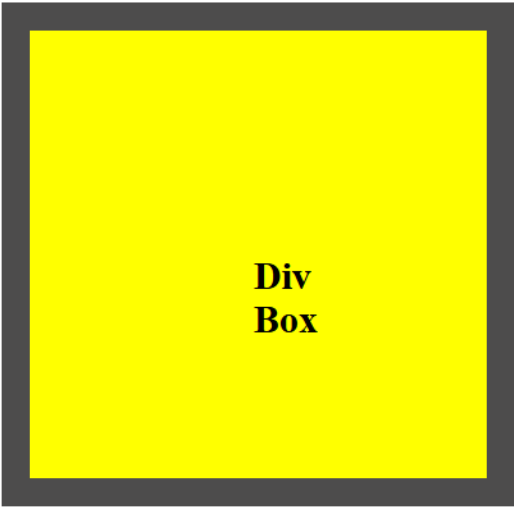
```
<html>
<head>
<title>>Anupam Chandra 2341003015 ASS-3 Q6</title>
<style>
*{margin:0;padding:0;box-sizing:border-box;
}

.highlight{background-color:yellow;
}
.dim{opacity:0.2;
}
div{
height:221px;width:321px;
border:18px solid rgb(77, 76, 76);
background-color:rgb(113, 204, 227);
text-align:left;
padding:140px;
margin-left:331px;
margin-top:210px;
}

button
{
width:200px;
height:80px;
margin-left:150px;
margin-top:70px;
margin-bottom:170px;
}
button{
border-radius: 30px;
}
</style>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js">
```

```
</script>
<script>
$(document).ready(function(){
$("#btn1").click(function(){
$("#div").addClass("highlight");
});

$("#btn2").click(function(){
$("#div").addClass("dim");
}); });
</script>
</head>
<body>
<div id="div1">
<h2>Div Box</h2>
</div>
<button id="btn1"> Highlight Button(press here to highlight the box) </button>
<button id="btn2">Dim Button(press here to dim the box) </button>
</body>
</html>
```



Highlight Button(press here to  
highlight the box)

Dim Button(press here to dim the  
box)



Highlight Button(press here to highlight the box)

Dim Button(press here to dim the box)

Q7. Create a webpage that contains a table displaying student data and an 'Add Row' button. The 'Add Row' button should add a new row with data from input fields each time it is clicked. Additionally, include a 'Change Color' button to change the text color of all table data to red.

```
<html>
<head>
  <title>>Anupam Chandra 2341003015 ASS-3 Q7</title>
<style>
```



```

table, th, td {
    border: 1px solid black;
    border-collapse: expand;
}
th, td {
    padding: 8px;
    text-align: left;
}
button{
    border-radius: 41px;
}

</style>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script>
$(document).ready(function() {
    $("#addRowButton").click(function() {
        var name = prompt("Enter student's name:", "");
        var age = prompt("Enter student's age:", "");
        var city = prompt("Enter student's city:", "");
        if (name != null && age != null && city != null) {
            var row = "<tr><td>" + name + "</td><td>" + age + "</td><td>" + city +
"</td></tr>";
            $("#studentTable tbody").append(row);
        }
    });

    $("#changeColorButton").click(function() {
        $("#studentTable td").css("color", "red");
    });
});
</script>

</head>
<body>

<h2>Student Database</h2>

<table id="studentTable">
    <thead>
        <tr>

```

```

        <th>student's name</th>
        <th>student's age</th>
        <th>student's city</th>
    </tr>
</thead>
<tbody>
    </tbody>
</table>

<button id="addRowButton">Add a new Row</button>
<button id="changeColorButton">Change the color of data</button>

</body>
</html>

```



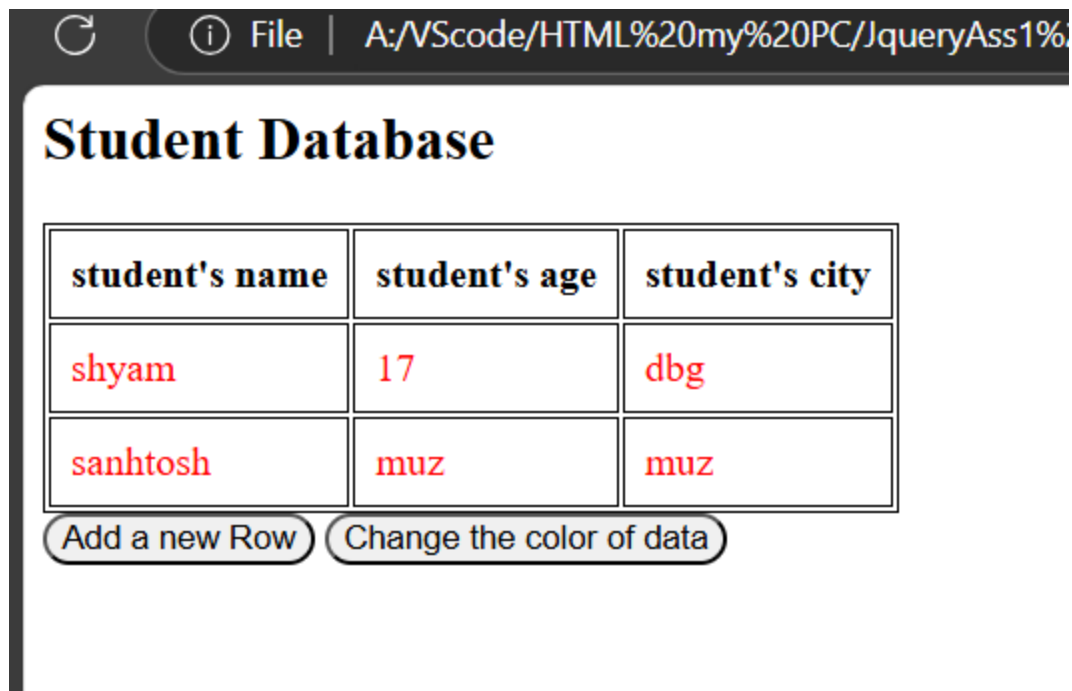
File | A:/VScode/HTML%20my%20PC/JqueryAs

## Student Database

student's name	student's age	student's city
shyam	17	dbg
sanhtosh	muz	muz

Add a new Row

Change the color of data



Q8. Create a webpage that includes a text box and a button. Write jQuery code that removes the element with an ID matching the text entered in the text box when the button is clicked. The webpage should initially contain a with paragraphs, each having a unique ID.

```
<html>
<head>
<title>>Anupam Chandra 2341003015 ASS-3 Q8</title>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
<style>
#container {
margin: 20px;
padding: 10px;
border: 1px solid black;
}
input, button {
```

```
margin: 5px;
    }
</style>
<script>
$(document).ready(function() {
$('#removeButton').click(function() {
var idToRemove = $('#idInput').val();
$('#' + idToRemove).remove();
$('#idInput').val('');
    });
});
</script>
</head>
<body>
<h2>Remove Element by ID</h2>
<div id="container">
<p id="para1">This is the first paragraph.</p>
<p id="para2">This is the second paragraph.</p>
<p id="para3">This is the third paragraph.</p>
<p id="para4">This is the fourth paragraph.</p>
</div>
<input type="text" id="idInput" placeholder="Enter ID to remove">
<button id="removeButton">Remove Element</button>
</body>
</html>
```

## Remove Element by ID

This is the first paragraph.

This is the second paragraph.

This is the third paragraph.

This is the fourth paragraph.

## Remove Element by ID

This is the second paragraph.

This is the third paragraph.

This is the fourth paragraph.

Q9. Write code to display a popup box without using the JavaScript alert() function.

```
<html>
<head><title>Anupam chandra 2341003015 ASS3 Q9</title>
<style>

button
{
width:118px;
height:111px;

}

button{
    border-radius: 41px;

}
</style>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js">
</script>

<script>

$(document).ready(function(){
$("#btn1").click(function(){
$("#div1").fadeIn(1000).css({"height":"550px","width":"480px",
"border":"2px solid red"})
.text("A custom popup Box without using the JavaScript alert() function");

});
});
</script>
</head>
<body>
<button id="btn1">Click Me to make the popup window appear </button> <br>
<br> <br>
<div id="div1">
</div>
</body>
</html>
```

Click Me to make  
the popup  
window appear

A custom popup Box without using the JavaScript alert() function

Q10. Create a sign-up form with the following requirements: 1. Users should be able to see hover states for all interactive elements on the page. 2. An error message should be displayed when the form is submitted if: o Any input field is empty. o The email address is not formatted correctly.

```
<html>
<head>
  <title>>Anupam Chandra 2341003015 ASS-3 Q10</title>
  <style>
```

```
form {
    max-width: 400px;
    margin: auto;
    padding: 20px;
    border: 1px solid #ddd;
    border-radius: 5px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

label {
    display: block;
    margin-top: 10px;
}

input[type="text"], input[type="email"], input[type="password"] {
    width: 100%;
    padding: 8px;
    margin-top: 5px;
    border: 1px solid #ddd;
    border-radius: 4px;
}

input[type="text"]:hover, input[type="email"]:hover,
input[type="password"]:hover, button:hover {
    border-color: #007bff;
}

button {
    width: 100%;
    padding: 10px;
    background-color: #007bff;
    color: white;
    border: none;
    border-radius: 4px;
    cursor: pointer;
    font-size: 16px;
    margin-top: 15px;
}

button:hover {
    background-color: #0056b3;
}
```



```

        .error {
            color: red;
            font-size: 14px;
            margin-top: 5px;
        }
    </style>
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
    <script>
        $(document).ready(function() {
            $("#signupForm").submit(function(event) {
                event.preventDefault();
                $(".error").remove();

                let hasError = false;

                $("#signupForm input").each(function() {
                    if ($(this).val().trim() === "") {
                        $(this).after("<span class='error'>This field is
required.</span>");
                        hasError = true;
                    }
                });

                const email = $("#email").val();
                const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
                if (email && !emailPattern.test(email)) {
                    $("#email").after("<span class='error'>Please enter a valid
email address.</span>");
                    hasError = true;
                }

                if (!hasError) {
                    alert("Form submitted successfully!");
                }
            });
        });
    </script>
</head>
<body>

    <form id="signupForm">
        <h2>Sign Up</h2>

```

```
<label for="username">Username</label>
<input type="text" id="username" name="username" placeholder="Enter your
username">

<label for="email">Email</label>
<input type="email" id="email" name="email" placeholder="Enter your email
address">

<label for="password">Password</label>
<input type="password" id="password" name="password" placeholder="Enter
your password">

<button type="submit">Sign Up</button>
</form>

</body>
</html>
```

