

1.	Create a Program which give Zebra Stripes table effect using JQUERY.
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>Zebra Strip</title> <style> * { margin: 0; padding: 0; box-sizing: border-box; } body { height: 100vh; width: 100vw; overflow: hidden; text-align: center; } table { height: 90%; width: 100%; } table thead tr { height: 70px; } table tbody tr { border: 10px solid black; } </style> </head> <body> <h1>Student Table</h1> <table> <thead> <tr> <th>Name</th> <th>Age</th> <th>Course</th> <th>City</th> <th>Email</th> </tr> </thead> <tbody> <tr> <td>Utsav</td> <td>18</td> <td>BCA</td> <td>Ahmedabad</td> <td>utsav@gmail.com</td> </tr> <tr> <td>Sam</td> </pre>

```

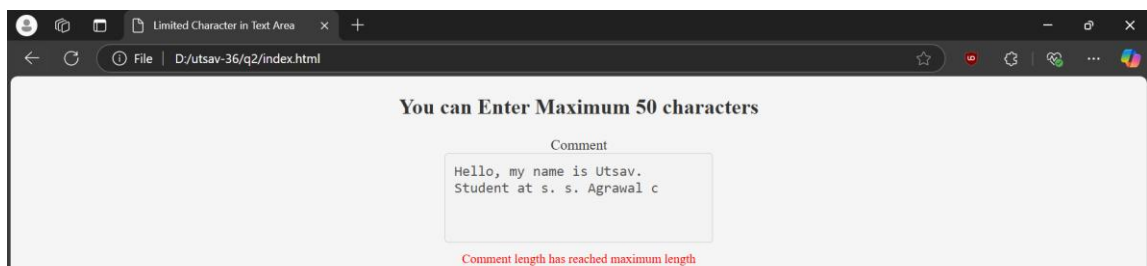
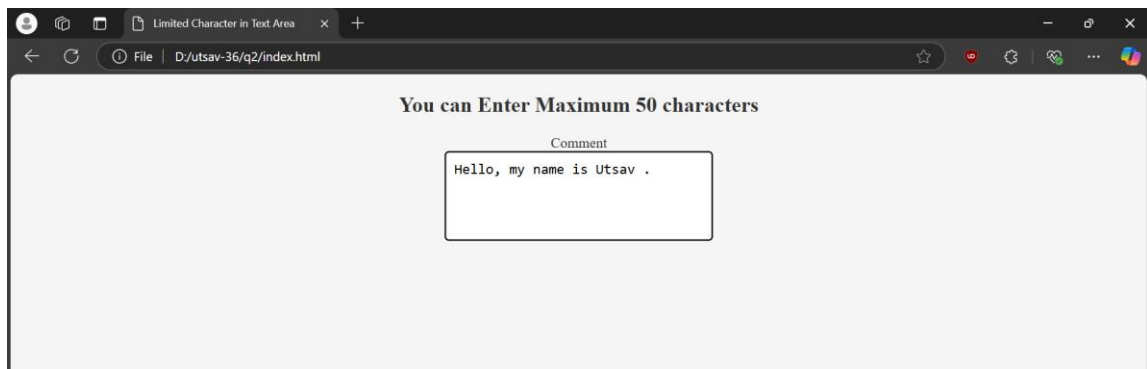
        <td>24</td>
        <td>B. Com</td>
        <td>Surat</td>
        <td>sam@gmail.com</td>
    </tr>
    <tr>
        <td>Elon</td>
        <td>24</td>
        <td>BBA</td>
        <td>Vadodara</td>
        <td>elon@gmail.com</td>
    </tr>
    <tr>
        <td>Parth</td>
        <td>25</td>
        <td>MBA</td>
        <td>Rajkot</td>
        <td>parth@gmail.com</td>
    </tr>
    <tr>
        <td>Ritesh</td>
        <td>24</td>
        <td>B. Com</td>
        <td>Gandhinagar</td>
        <td>ritesh@gmail.com</td>
    </tr>
</tbody>
</table>
<script src="../../jquery-3.7.1.min.js"></script>
<script>
    $(document).ready(function () {
        var td = $("tr:even");
        td.css("background", "black");
        td.css("color", "white");
        td.css("border-color", "black");
    });
</script>
</body>
</html>

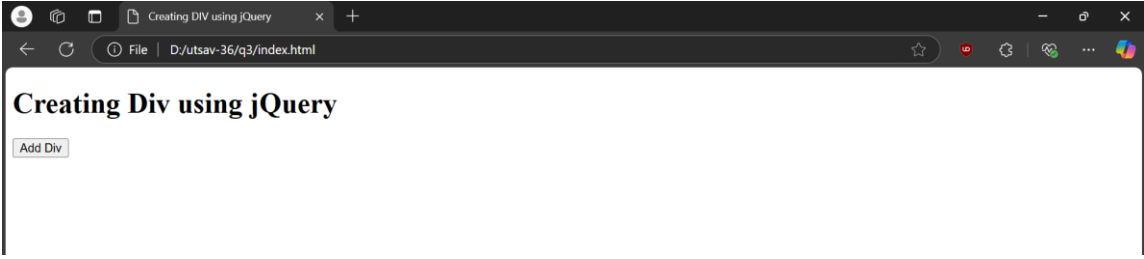
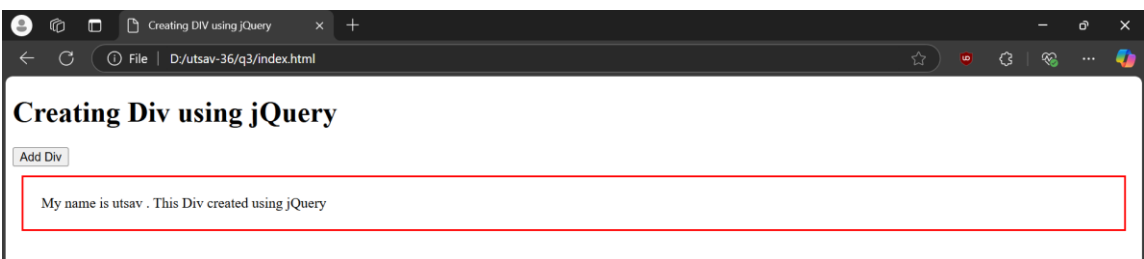
```

Student Table				
Name	Age	Course	City	Email
Utsav	18	BCA	Ahmedabad	utsav@gmail.com
Sam	24	B. Com	Surat	sam@gmail.com
Elon	24	BBA	Vadodara	elon@gmail.com
Parth	25	MBA	Rajkot	parth@gmail.com
Ritesh	24	B. Com	Gandhinagar	ritesh@gmail.com

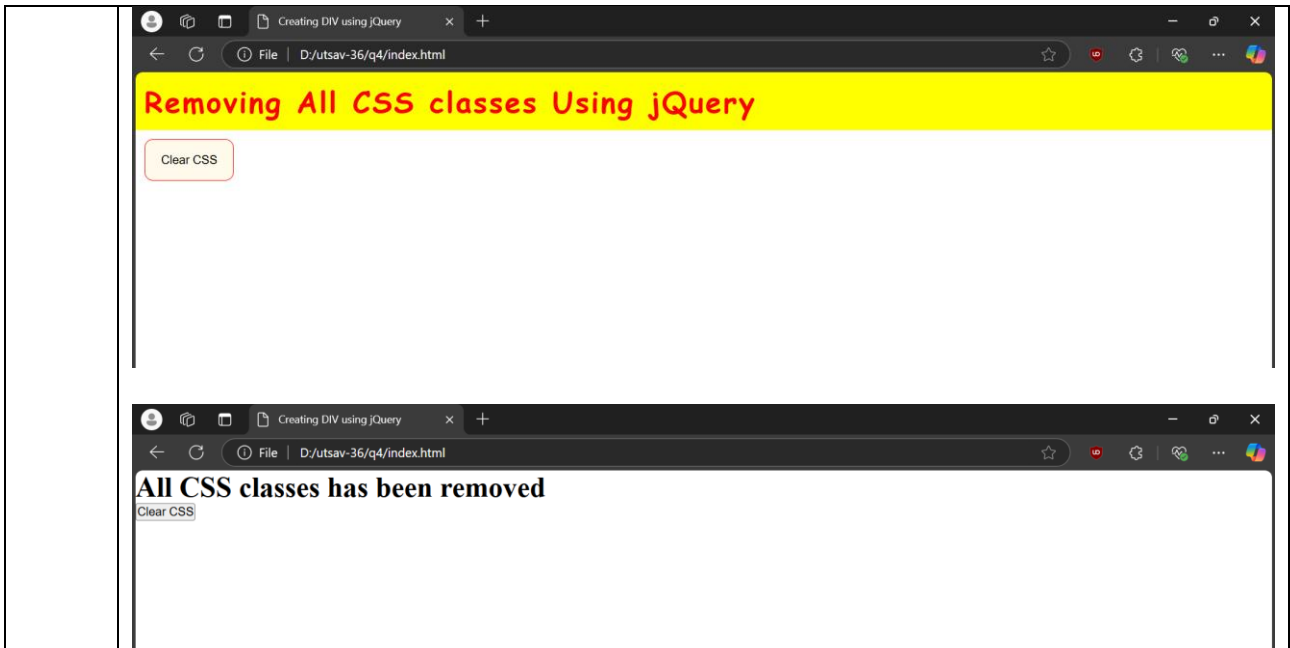
2.	W.A.P That Limit character input in the text area including count.
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>Limited Character in Text Area</title> <style> * { margin: 0; padding: 0; box-sizing: border-box; } body { display: flex; justify-content: center; height: 100vh; background-color: #f5f5f5; color: #333; } h1 { margin-bottom: 20px; font-size: 24px; } form { display: flex; flex-direction: column; align-items: center; } textarea { width: 300px; height: 100px; padding: 10px; border: 1px solid #ccc; border-radius: 4px; resize: none; font-size: 16px; } p { margin-top: 10px; font-size: 14px; color: red; } div { padding: 20px; } </style> </head> <body> <div> <h1>You can Enter Maximum 50 characters</h1> <form> Comment <textarea cols="5" rows="10" id="inputArea" name="comment"></textarea> </pre>

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<p id="res"></p>
</form>
</div>
<script src="../jquery-3.7.1.min.js"></script>
<script>
$(document).ready(function () {
  var txt = $("#inputArea");
  txt.keypress(function () {
    if (txt.val().length > 50) {
      txt.attr("disabled", true);
      $("#res").text("Comment length has reached maximum length");
    }
  });
});
</script>
</body>
</html>
```



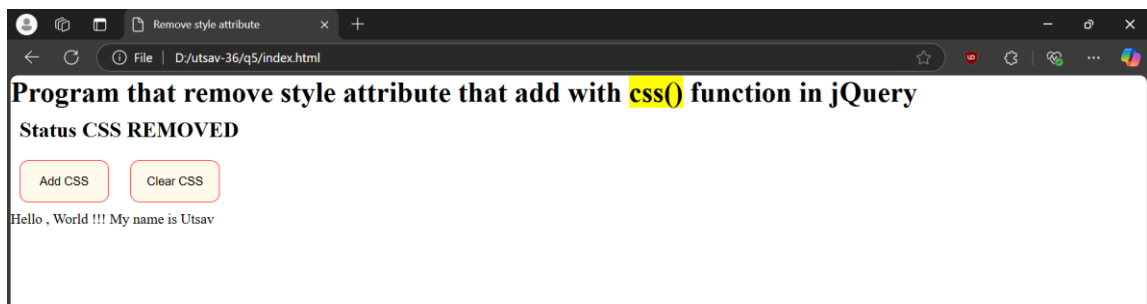
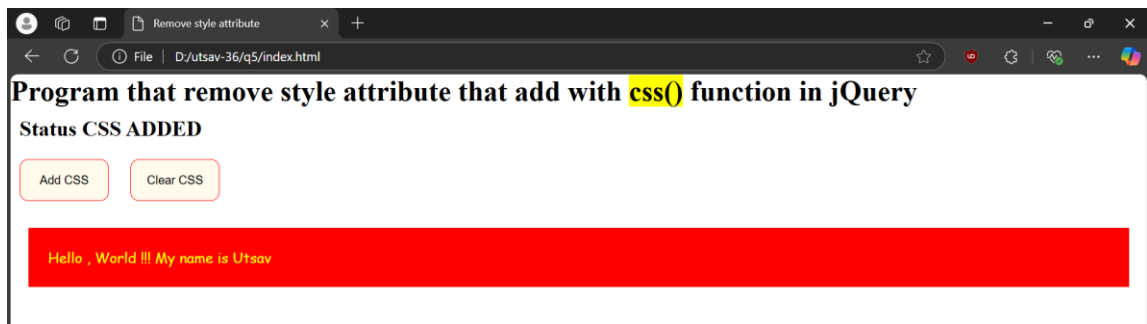
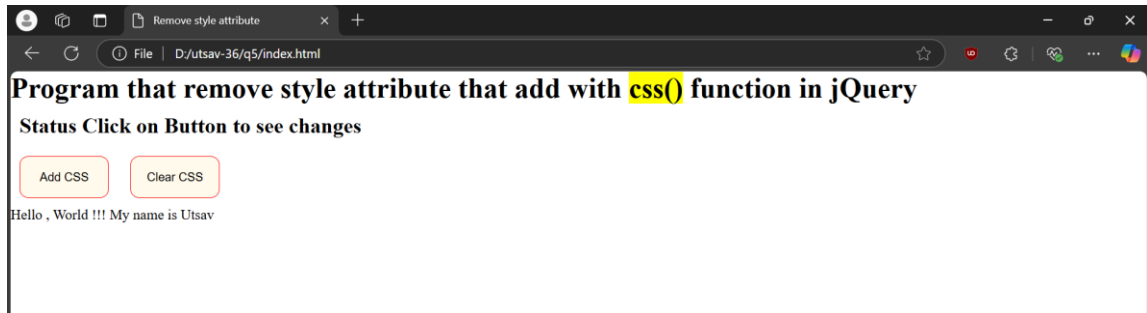
3.	W.A.P That Create a div using jquery with style tag.
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>Creating DIV using jQuery</title> <style> div { border: 2px solid red; margin: 10px; padding: 20px; } </style> </head> <body> <h1>Creating Div using jQuery</h1> <button>Add Div</button> <script src="../jquery-3.7.1.min.js"></script> <script> \$(document).ready(function () { \$("button").click(function () { var div = \$("<div> </div>"); div.text("My name is utsav . This Div created using jQuery"); \$("body").append(div); }); }); </script> </body> </html> </pre>  

4.	W.A.P That Remove all CSS classes using jquery.
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>Creating DIV using jQuery</title> <style> * { margin: 0; padding: 0; box-sizing: border-box; } .heading { font-family: cursive; letter-spacing: 2px; background-color: yellow; padding: 10px; color: red; } .btn { padding: 15px; border: 1px solid red; width: 100px; background: #fffaec; border-radius: 10px; margin: 10px; } </style> </head> <body> <h1 class="heading" id="heading">Removing All CSS classes Using jQuery</h1> <button class="btn">Clear CSS</button> <script src="../jquery-3.7.1.min.js"></script> <script> \$(document).ready(function () { \$("button").click(function () { var allElements = \$("*"); allElements.removeClass(); \$("#heading").text("All CSS classes has been removed"); \$("button").attr("disabled"); }); }); </script> </body> </html> </pre>



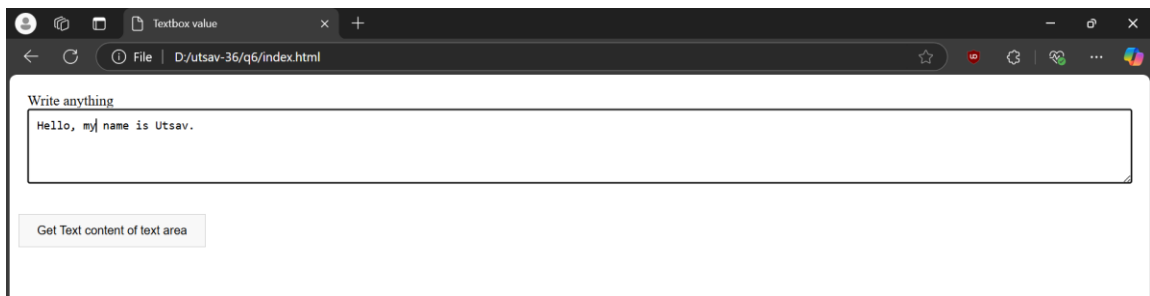
5.	W.A.P that remove style added with .css() function using jquery.
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>Remove style attribute</title> <style> * { margin: 0; padding: 0; box-sizing: border-box; } .btn { padding: 15px; border: 1px solid red; width: 100px; background: #fffaec; border-radius: 10px; margin: 10px; } h2 { margin: 10px; } </style> </head> <body> <h1 class="heading"> Program that remove style attribute that add with <mark>css()</mark> function in jQuery </h1> <h2>Status Click on Button to see changes</h2> <button class="btn" id="addcss">Add CSS</button> <button class="btn" id="clearcss">Clear CSS</button> <p>Hello , World !!! My name is Utsav</p> <script src="../jquery-3.7.1.min.js"></script> <script> \$(document).ready(function () { var p = \$("p"); \$("#addcss").click(function () { p.css({ margin: "20px", border: "2px solid red", padding: "20px", fontFamily: "cursive", color: "yellow", background: "red", }); \$("#res").text(" CSS ADDED"); }); \$("#clearcss").click(function () { p.removeAttr("style"); \$("#res").text(" CSS REMOVED"); }); }); </script> </pre>

```
</script>  
</body>  
</html>
```



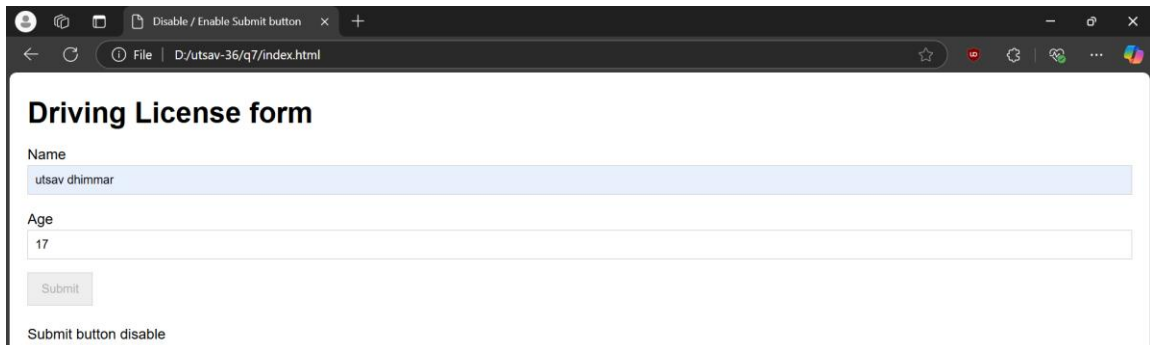
6.	W.A.P That show to get the value of a textbox using jquery.
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>Textbox value</title> <style> * { margin: 0; padding: 0; box-sizing: border-box; } form { padding: 20px; } textarea { width: 100%; padding: 10px; } button { padding: 10px 20px; border: 1px solid #ccc; background-color: #f8f8f8; margin: 10px; cursor: pointer; } p { margin: 10px; } h2 { margin: 10px 0; } </style> </head> <body> <form> <label for="inputArea"></label> Write anything <textarea cols="50" rows="4" id="inputArea" name="comment"></textarea> </form> <button id="getbtn">Get Text content of text area</button> <p id="res"></p> <script src="../jquery-3.7.1.min.js"></script> <script> \$(document).ready(function () { \$("#getbtn").click(function () { if (\$("#inputArea").val().length > 0) { \$("#res").text(\$("#inputArea").val()); } else { \$("#res").text("Text area is empty"); } }); }); </pre>

```
</script>
</body>
</html>
```



7.	W.A.P that make Disable/enable the form submit button
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>Disable / Enable Submit button</title> <style> body { font-family: sans-serif; line-height: 1.5; margin: 20px; } h1 { margin-bottom: 10px; } form { display: flex; flex-direction: column; } label { margin-bottom: 5px; } input { padding: 8px; margin-bottom: 10px; border: 1px solid #ccc; width: 100%; box-sizing: border-box; } .btn { padding: 10px 15px; border: 1px solid #ccc; background-color: #eee; cursor: pointer; width: fit-content; } p { margin-top: 10px; } </style> </head> <body> <h1>Driving License form</h1> <form> <label> Name <input type="text" name="username" placeholder="Enter Name" /> </label> <label> Age <input type="number" name="userage" id="ageinput" placeholder="Enter Age"/> </label> <input id="subBtn" type="submit" class="btn" disabled /> </form> </pre>

```
<p id="res">Submit button disable</p>
<script src="../jquery-3.7.1.min.js"></script>
<script>
$(document).ready(function () {
    $("#ageinput").keyup(function () {
        if ($("#ageinput").val() >= 18) {
            $("#subBtn").attr("disabled", false);
            $("#res").text("Submit button enable");
        } else {
            $("#subBtn").attr("disabled", true);
            $("#res").text("Submit button disable");
        }
    });
});
</script>
</body>
</html>
```



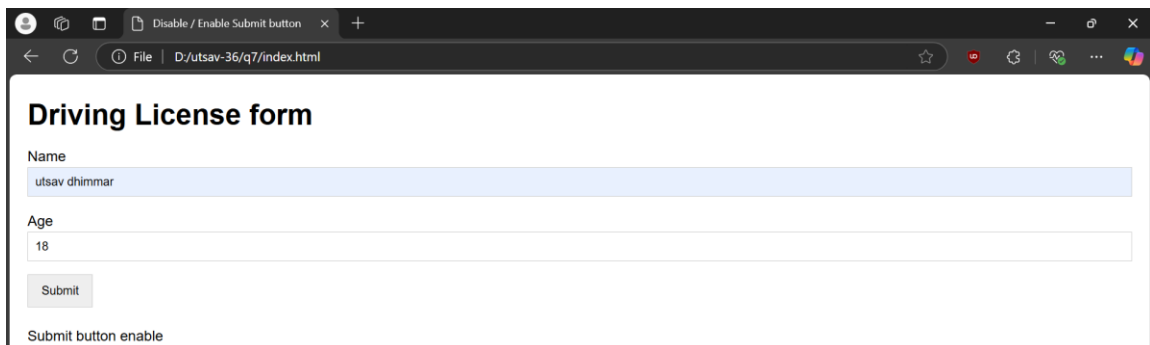
Driving License form

Name
utsav dhimmar

Age
17

Submit

Submit button disable





Driving License form

Name
utsav dhimmar

Age
18

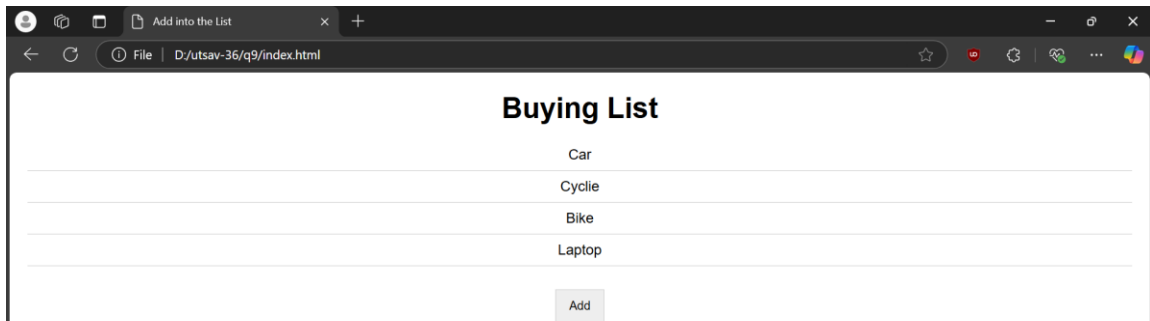
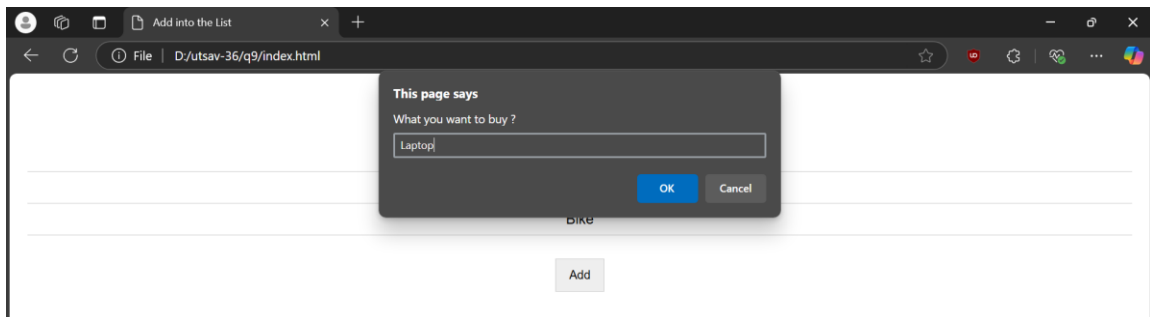
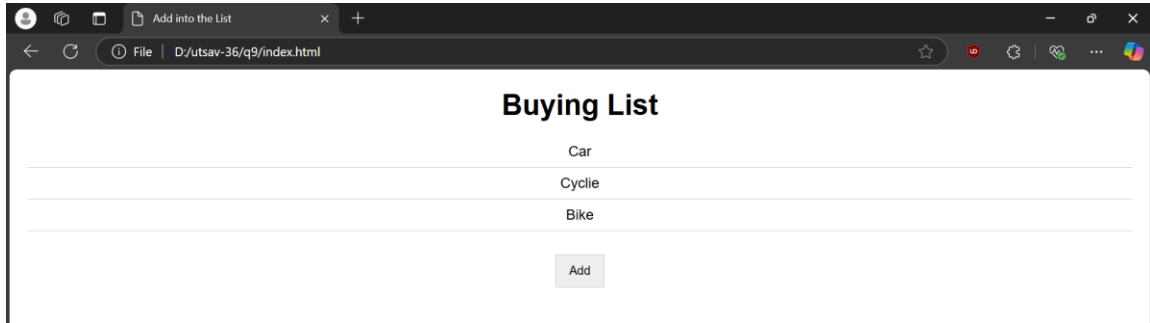
Submit

Submit button enable

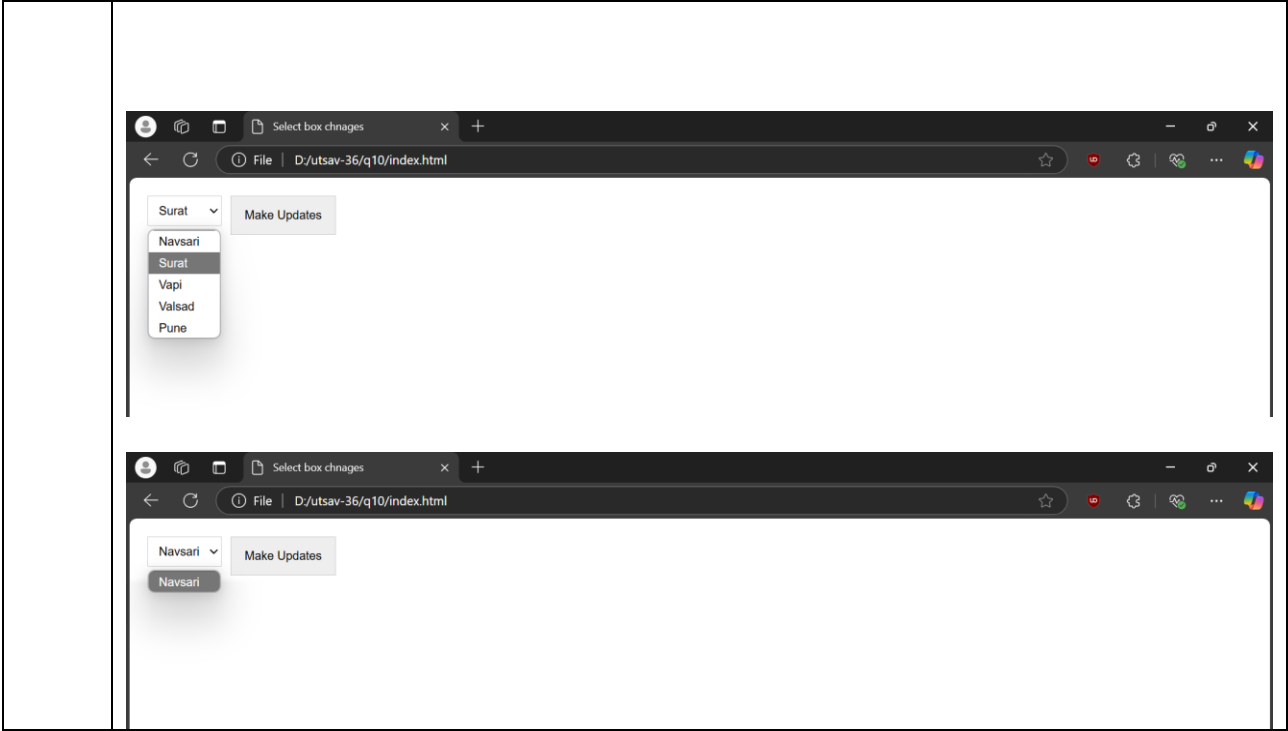
8.	W.A.P that blink text using jquery.
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>Blink Text</title> <style> * { margin: 0; padding: 0; } body { height: 100vh; width: 100vw; display: flex; align-items: center; justify-content: center; font-weight: 900; text-align: center; font-size: 50px; } </style> </head> <body> <p>Hello World</p> <script src="../jquery-3.7.1.min.js"></script> <script> \$(document).ready(function () { setInterval(function () { \$(".p").fadeOut(1000).fadeIn(1000); }, 1000); }); </script> </body> </html> </pre>  

9.	W.A.P that add a list elements within an unordered list element.
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>Add into the List</title> <style> body { font-family: sans-serif; background-color: #fff; color: #000; text-align: center; margin: 20px; } h1 { margin-bottom: 10px; } ul { list-style-type: none; padding: 0; } li { padding: 8px 0; border-bottom: 1px solid #ccc; } button { padding: 10px 15px; border: 1px solid #ccc; background-color: #eee; cursor: pointer; margin-top: 10px; } </style> </head> <body> <h1>Buying List</h1> Car Cyclie Bike <button id="addlist">Add</button> <script src="../jquery-3.7.1.min.js"></script> <script> \$(document).ready(function () { var lists = \$("ul"); \$("#addlist").click(function () { var newList = prompt("What you want to buy ? "); if (newList != null) { lists.append(" ").text(newList)); } else { alert("List not added"); } } } </pre>

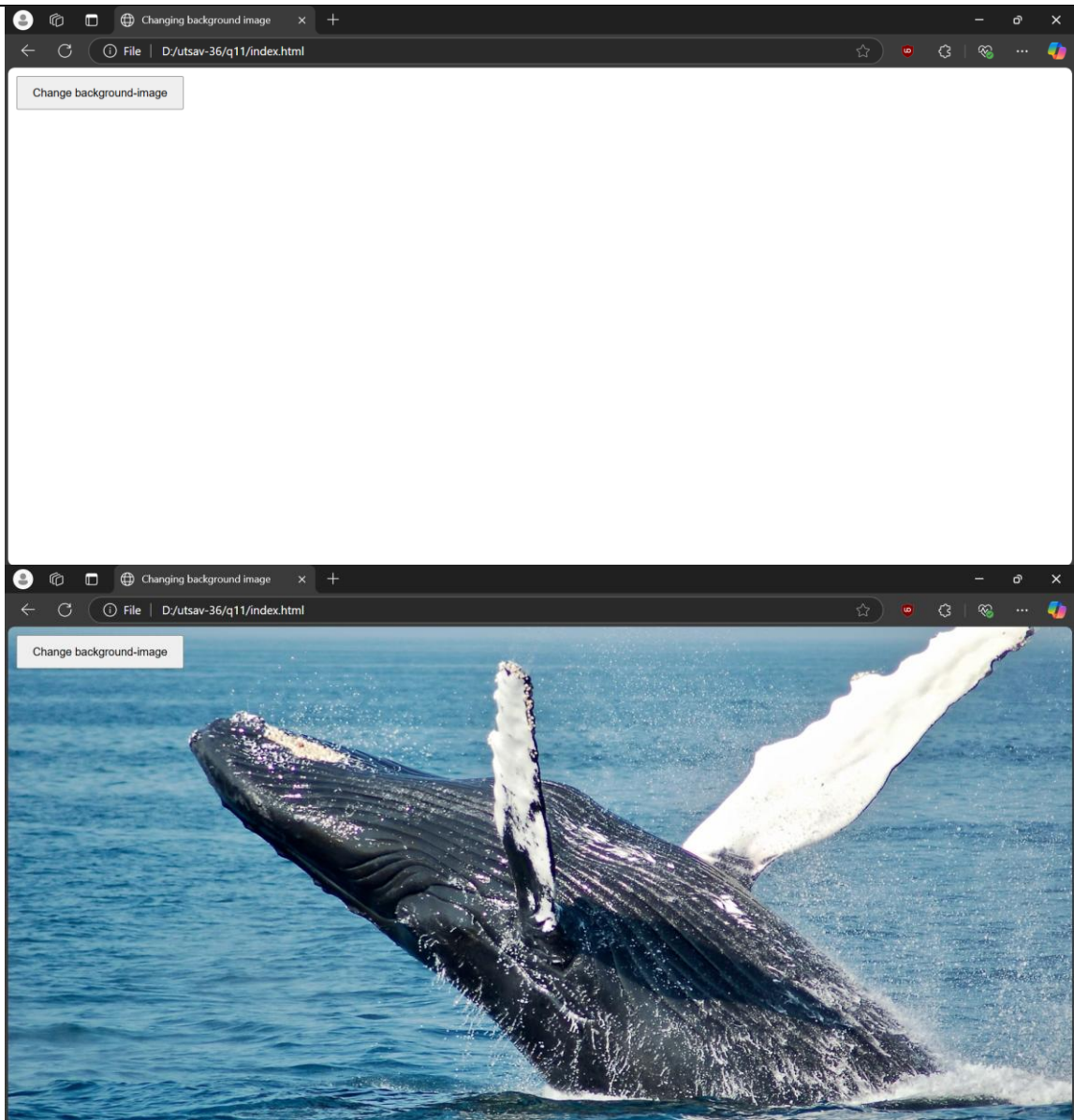

```
}  
});  
});  
</script>  
</body>  
</html>
```



10.	W.A.P that remove all the options of a select box and then add one option and select it.
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>Select box chnages</title> <style> body { font-family: sans-serif; margin: 20px; display: flex; } form { margin-bottom: 10px; } select { padding: 8px; border: 1px solid #ccc; margin-right: 10px; } button { padding: 10px 15px; border: 1px solid #ccc; background-color: #eee; cursor: pointer; } </style> </head> <body> <form> <select name="city" id="city"> <option value="Navsari">Navsari</option> <option value="Surat" selected>Surat</option> <option value="Vapi">Vapi</option> <option value="Valsad">Valsad</option> <option value="Pune">Pune</option> </select> </form> <button id="btn">Make Updates</button> <script src="../jquery-3.7.1.min.js"></script> <script> \$(document).ready(function () { var selRef = \$("#city"); \$("#btn").click(function () { selRef.html(""); selRef.html('<option value="Navsari" selected>Navsari</option>'); }); }); </script> </body> </html> </pre>



11.	W.A.P That Set background-image using jquery CSS property.
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>Changing background image</title> <style> * { margin: 0; padding: 0; } body { height: 100vh; width: 100vw; } #btn { height: 40px; width: 200px; margin: 10px; } </style> </head> <body> <button type="button" id="btn">Change background-image</button> <script src="../jquery-3.7.1.min.js"></script> <script> \$(document).ready(function () { \$("#btn").click(function () { \$("body").css({ backgroundImage: "url('img.png')", backgroundPosition: "center", backgroundSize: "cover", backgroundRepeat: "no-repeat", }); }); }); </script> </body> </html> </pre>



12.	W.A.P That Delete all table rows except first one using jquery.
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>Remove all row table except first row</title> <style> body { font-family: sans-serif; margin: 20px; } #btn { padding: 10px 15px; border: 1px solid #ccc; margin-bottom: 10px; } table { width: 100%; border-collapse: collapse; } th, td { border: 1px solid #ccc; padding: 8px; text-align: center; } th { background-color: #eee; } </style> </head> <body> <button type="button" id="btn">Modify Table</button> <table> <thead> <tr> <th>Name</th> <th>Age</th> <th>Course</th> </tr> </thead> <tbody> <tr> <td>Utsav</td> <td>18</td> <td>BCA</td> </tr> <tr> <td>Sam</td> <td>24</td> <td>B. Com</td> </tr> <tr> <td>Elon</td> </pre>

```

        <td>24</td>
        <td>BBA</td>
    </tr>
    <tr>
        <td>Parth</td>
        <td>25</td>
        <td>MBA</td>
    </tr>
    <tr>
        <td>Ritesh</td>
        <td>24</td>
        <td>B. Com</td>
    </tr>
</tbody>
</table>
<script src="../jquery-3.7.1.min.js"></script>
<script>
$(document).ready(function () {
    var tableHeadHtml = $("table thead");
    var table = $("table");
    $("#btn").click(function () {
        table.html(tableHeadHtml);
    });
});
</script>
</body>
</html>

```

Remove all row table except first

File | D:/utsav-36/q12/index.html

Modify Table

Name	Age	Course
Utsav	18	BCA
Sam	24	B. Com
Elon	24	BBA
Parth	25	MBA
Ritesh	24	B. Com

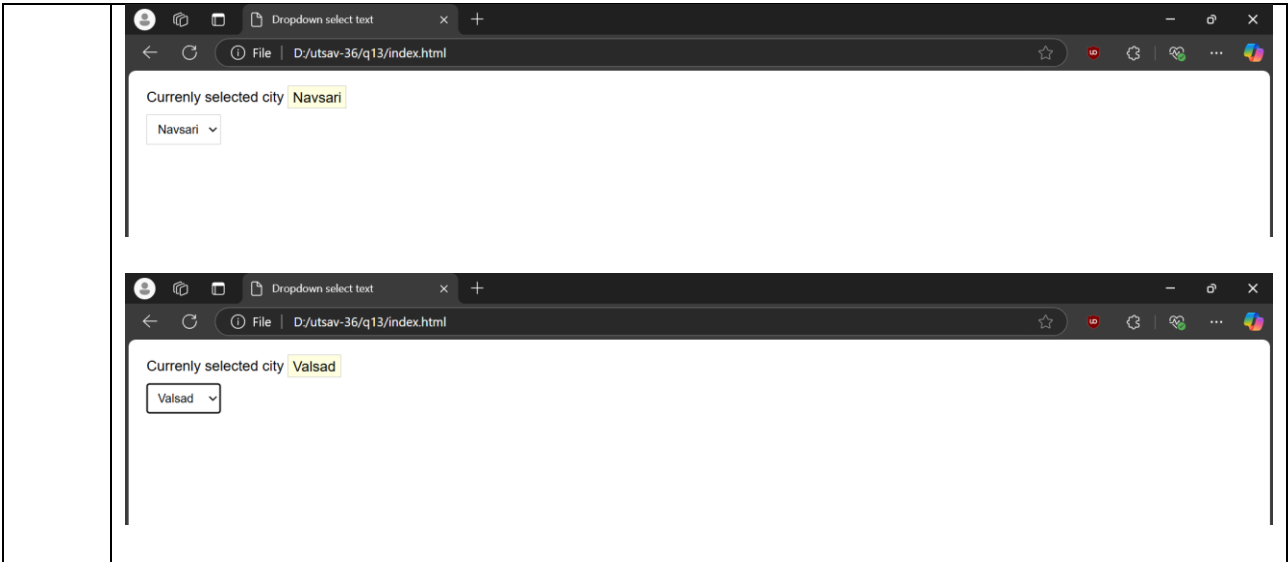
Remove all row table except first

File | D:/utsav-36/q12/index.html

Modify Table

Name	Age	Course
------	-----	--------

13.	W.A.P That How to get the selected value and currently selected text of a dropdown box using jquery?
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>Dropdown select text</title> <style> body { font-family: sans-serif; margin: 20px; } p { margin-bottom: 10px; } #c { background-color: lightyellow; padding: 3px 5px; border: 1px solid #ccc; } select { padding: 8px; border: 1px solid #ccc; } </style> </head> <body> <p id="res">Currently selected city </p> <form> <select name="city" id="city"> <option value="Navsari">Navsari</option> <option value="Surat">Surat</option> <option value="Vapi">Vapi</option> <option value="Valsad">Valsad</option> <option value="Pune">Pune</option> </select> </form> <script src="../jquery-3.7.1.min.js"></script> <script> \$(document).ready(function () { function handleCityChange() { var selectOptions = \$("#city option:selected").text(); return selectOptions; } \$("#city").change(function () { \$("#c").text(handleCityChange()); }); \$("#c").text(handleCityChange()); }); </script> </body> </html> </pre>



14.	W.A.P that fetch data from XML file and display it's content on HTML file.
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>XML data</title> <style> body { font-family: sans-serif; margin: 20px; } table { width: 100%; border-collapse: collapse; text-align: left; } th, td { border: 1px solid #ccc; padding: 8px; } th { background-color: #eee; text-align: center; } </style> </head> <body> <h1>Employee table</h1> <table id="res"> <thead> <tr> <th>Name</th> <th>Age</th> <th>Gender</th> <th>Job Title</th> <th>Salary</th> </tr> </thead> </table> <script src="../jquery-3.7.1.min.js"></script> <script> \$(document).ready(function () { var xhr = new XMLHttpRequest(); xhr.open("GET", "data.xml", true); xhr.send(); var tbRef = \$("#res"); var ansTag =("<tbody></tbody>"); }); </script> </body> </html> </pre>

```

xhr.onreadystatechange = function () {
    if (xhr.readyState == 4 && xhr.status == 200) {
        var data = xhr.responseXML;
        var rootTag = data.getElementsByTagName("Employee");
        updateData(rootTag);
    }
};

function updateData(rootTag) {
    for (var i = 0; i < rootTag.length; i++) {
        var name = rootTag[i].getElementsByTagName("Name")[0].textContent;
        var age = rootTag[i].getElementsByTagName("Age")[0].textContent;
        var gender = rootTag[i].getElementsByTagName("Gender")[0].textContent;
        var jobTitle = rootTag[i].getElementsByTagName("JobTitle")[0].textContent;
        var salary = rootTag[i].getElementsByTagName("Salary")[0].textContent;
        var nameTag = $("<td></td>").text(name);
        var ageTag = $("<td></td>").text(age);
        var jobTitleTag = $("<td></td>").text(jobTitle);
        var salaryTag = $("<td></td>").text(salary);
        var genderTag = $("<td></td>").text(gender);
        var tr = $("<tr></tr>").append( nameTag, ageTag, genderTag, jobTitleTag,
salaryTag );
        ansTag.append(tr);
    }
    tbRef.append(ansTag);
});
</script>
</body>
</html>

```

```

----- data.xml -----

<?xml version="1.0" encoding="UTF-8"?>
<Employees>
    <Employee>
        <Name>Utsav Dhimmar</Name>
        <Age>18</Age>
        <Gender>Male</Gender>
        <JobTitle>Software Engineer</JobTitle>
        <Salary>7500</Salary>

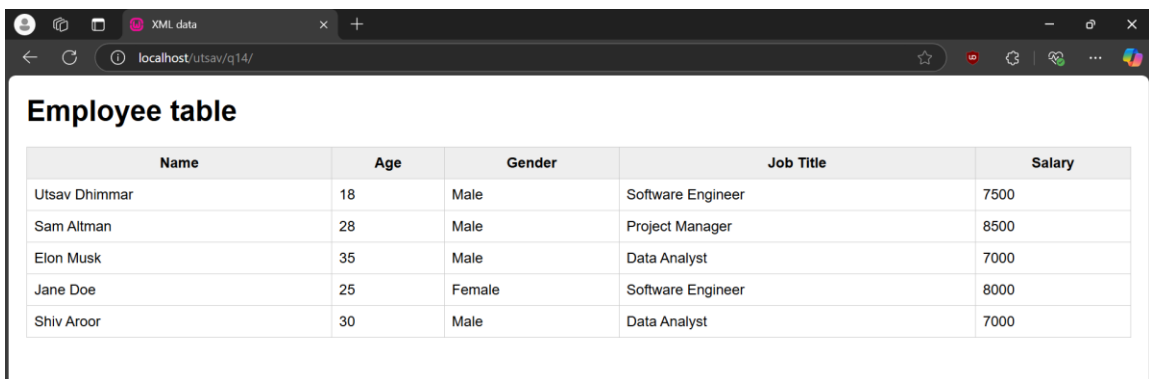
    </Employee>
    <Employee>
        <Name>Sam Altman</Name>
        <Age>28</Age>
        <Gender>Male</Gender>
        <JobTitle>Project Manager</JobTitle>
        <Salary>8500</Salary>
    </Employee>
</Employees>

```

```

<Name>Elon Musk</Name>
<Age>35</Age>
<Gender>Male</Gender>
<JobTitle>Data Analyst</JobTitle>
<Salary>7000</Salary>
</Employee>
<Employee>
  <Name>Jane Doe</Name>
  <Age>25</Age>
  <Gender>Female</Gender>
  <JobTitle>Software Engineer</JobTitle>
  <Salary>8000</Salary>
</Employee>
<Employee>
  <Name>Shiv Aroor</Name>
  <Age>30</Age>
  <Gender>Male</Gender>
  <JobTitle>Data Analyst</JobTitle>
  <Salary>7000</Salary>
</Employee>
</Employees>

```



Name	Age	Gender	Job Title	Salary
Utsav Dhimmar	18	Male	Software Engineer	7500
Sam Altman	28	Male	Project Manager	8500
Elon Musk	35	Male	Data Analyst	7000
Jane Doe	25	Female	Software Engineer	8000
Shiv Aroor	30	Male	Data Analyst	7000

15.	W.A.P that parse XML string into DOM.
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>XML string to DOM</title> <style> body { font-family: sans-serif; margin: 20px; } table { width: 100%; border-collapse: collapse; text-align: left; } th, td { border: 1px solid #ccc; padding: 8px; } th { background-color: #eee; text-align: center; } </style> </head> <body> <h1>Student table</h1> <table id="res"> <thead> <tr> <th>Name</th> <th>Age</th> <th>Gender</th> <th>Course</th> <th>Department</th> </tr> </thead> </table> <script src="../jquery-3.7.1.min.js"></script> <script> \$(document).ready(function () { var xmlData = `<Students> <Student> <Name>Utsav</Name> <Age>18</Age> <Gender>Male</Gender> <Course>BCA</Course> <Department>IT</Department> </Student> </pre>

```

<Student>
  <Name>Kevin</Name>
  <Age>21</Age>
  <Gender>Male</Gender>
  <Course>BBA</Course>
  <Department>Business Administration</Department>
</Student>

```

```

<Student>
  <Name>Niddhi</Name>
  <Age>19</Age>
  <Gender>Female</Gender>
  <Course>BCOM</Course>
  <Department>Commerce</Department>
</Student>

```

```

<Student>
  <Name>Ridhhi</Name>
  <Age>24</Age>
  <Gender>Female</Gender>
  <Course>MBA</Course>
  <Department>Business Administration</Department>
</Student>

```

```

<Student>
  <Name>Hirendra</Name>
  <Age>26</Age>
  <Gender>Male</Gender>
  <Course>BSC</Course>
  <Department>Science</Department>
</Student>
</Students>`;

```

```

var domParserObj = new DOMParser();
var xml = domParserObj.parseFromString(xmlData, "text/xml");
var rootTag = xml.getElementsByTagName("Student");
var tBody = $("<tbody> </tbody>");
for (var i = 0; i < rootTag.length; i++) {
  var name = rootTag[i].getElementsByTagName("Name")[0].textContent;
  var nameTag = $("<td> </td>").text(name);

  var age = rootTag[i].getElementsByTagName("Age")[0].textContent;
  var ageTag = $("<td> </td>").text(age);

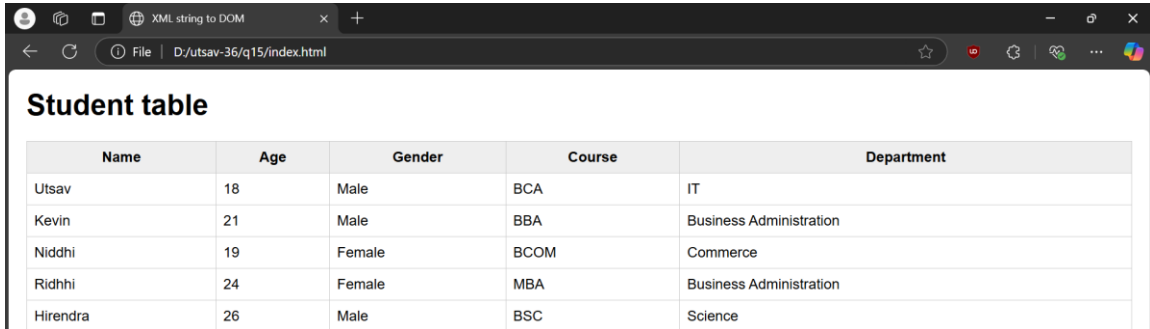
  var gender = rootTag[i].getElementsByTagName("Gender")[0].textContent;
  var genderTag = $("<td> </td>").text(gender);

  var course = rootTag[i].getElementsByTagName("Course")[0].textContent;
  var courseTag = $("<td> </td>").text(course);

  var dept = rootTag[i].getElementsByTagName("Department")[0].textContent;
  var deptTag = $("<td> </td>").text(dept);

```

```
var tr = $("<tr> </tr>").append( nameTag, ageTag, genderTag, courseTag,
deptTag );
tbody.append(tr);
}
$("table").append(tbody);
});
</script>
</body>
</html>
```



The screenshot shows a web browser window with a single tab titled 'XML string to DOM'. The address bar shows the file path 'D:/utsav-36/q15/index.html'. The page content displays a table titled 'Student table'.

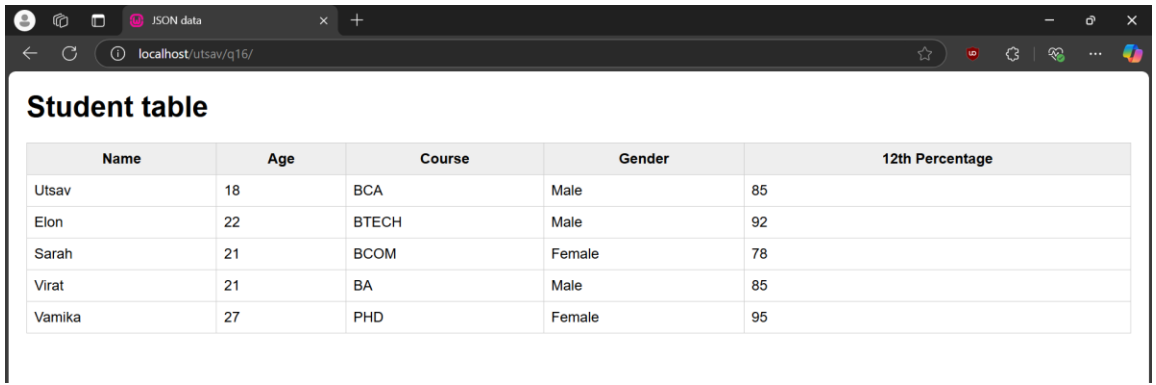
Name	Age	Gender	Course	Department
Utsav	18	Male	BCA	IT
Kevin	21	Male	BBA	Business Administration
Niddhi	19	Female	BCOM	Commerce
Ridhhi	24	Female	MBA	Business Administration
Hirendra	26	Male	BSC	Science

16.	W.A.P that fetch data from JSON FILE in TABLE.
Ans.	<pre> <!DOCTYPE html> <html lang="en"> <head> <title>JSON data</title> <style> body { font-family: sans-serif; margin: 20px; } table { width: 100%; border-collapse: collapse; text-align: left; } th, td { border: 1px solid #ccc; padding: 8px; } th { background-color: #eee; text-align: center; } </style> </head> <body> <h1>Student table</h1> <table id="res"> <thead> <tr> <th>Name</th> <th>Age</th> <th>Course</th> <th>Gender</th> <th>12th Percentage</th> </tr> </thead> </table> <script src="../jquery-3.7.1.min.js"></script> <script> \$(document).ready(function () { \$.getJSON("data.json", function (data) { var dataObj = data.Students; var table = \$("#res"); var tableBody = \$("<tbody> </tbody>"); \$.each(dataObj, function (key, value) { var name = \$("<td> </td>").text(value.name); var age = \$("<td> </td>").text(value.age); var course = \$("<td> </td>").text(value.course); var gender = \$("<td> </td>").text(value.gender); var per12 = \$("<td> </td>").text(value.percentage_12th); var tr = \$("<tr> </tr>").append(name, age, course, gender, per12); </pre>


```
        tableBody.append(tr);
    });
    table.append(tableBody);
    });
</script>
</body>
</html>
```

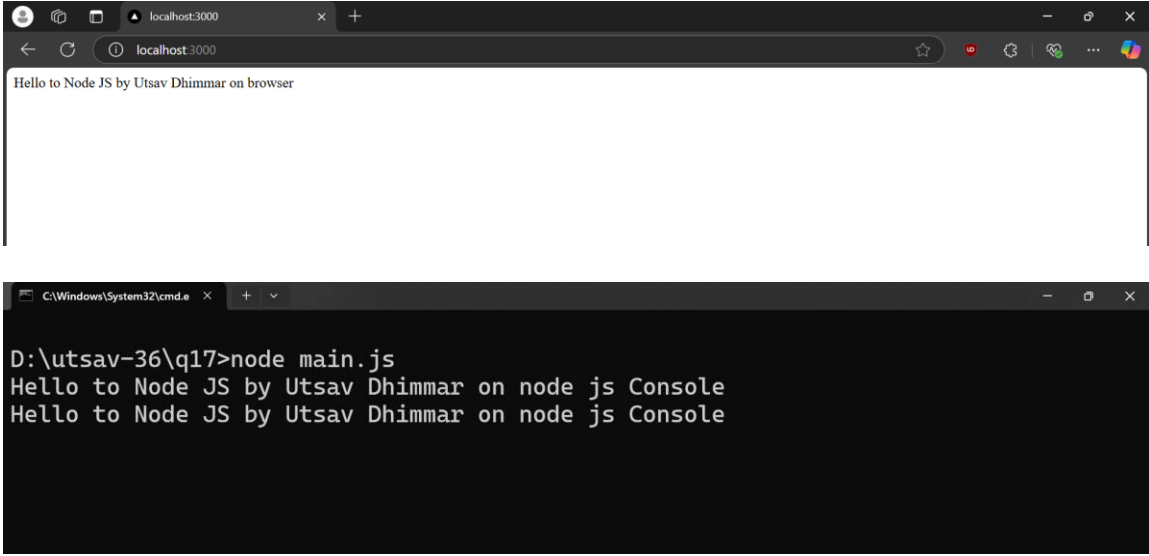
----- data.json -----

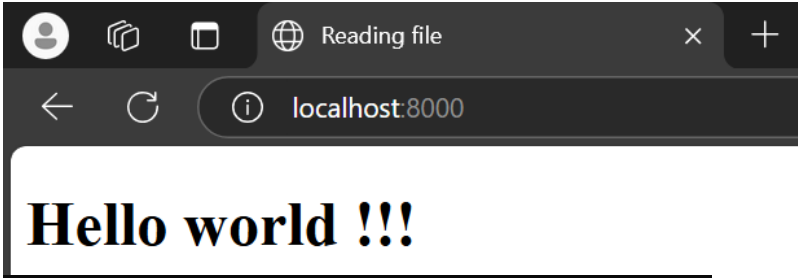
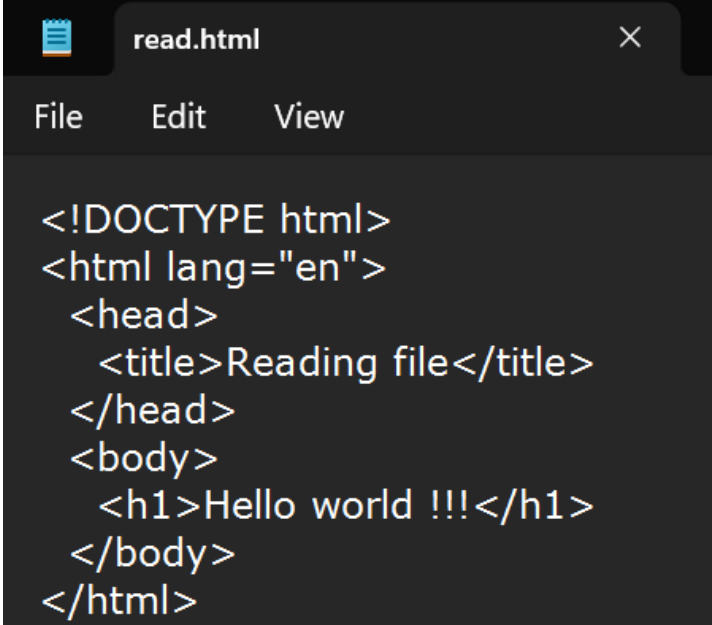
```
{
  "Students": [
    {
      "name": "Utsav",
      "age": 18,
      "course": "BCA",
      "gender": "Male",
      "percentage_12th": 85
    },
    {
      "name": "Elon",
      "age": 22,
      "course": "BTECH",
      "gender": "Male",
      "percentage_12th": 92
    },
    {
      "name": "Sarah",
      "age": 21,
      "course": "BCOM",
      "gender": "Female",
      "percentage_12th": 78
    },
    {
      "name": "Virat",
      "age": 21,
      "course": "BA",
      "gender": "Male",
      "percentage_12th": 85
    },
    {
      "name": "Vamika",
      "age": 27,
      "course": "PHD",
      "gender": "Female",
      "percentage_12th": 95
    }
  ]
}
```



The screenshot shows a web browser window with a single tab titled 'JSON data'. The address bar displays 'localhost/utsav/q16/'. The main content area features a table titled 'Student table'. The table has five columns: 'Name', 'Age', 'Course', 'Gender', and '12th Percentage'. It contains five rows of data for students: Utsav, Elon, Sarah, Virat, and Vamika.

Name	Age	Course	Gender	12th Percentage
Utsav	18	BCA	Male	85
Elon	22	BTECH	Male	92
Sarah	21	BCOM	Female	78
Virat	21	BA	Male	85
Vamika	27	PHD	Female	95

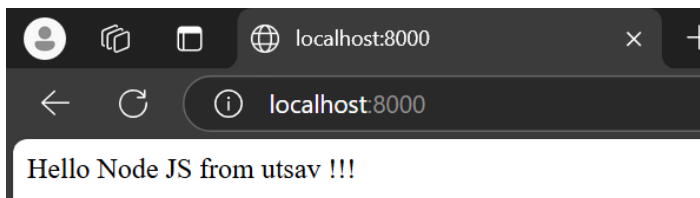
17.	W.A.P that print message on console using NODE.JS.
Ans.	<pre>var http = require('http'); http.createServer(function (req, res) { res.writeHead(200, { 'Content-Type': 'text/html' }); res.write("<p> Hello to Node JS by Utsav Dhimmar on browser</p>"); console.log("Hello to Node JS by Utsav Dhimmar on node js Console"); res.end(); }).listen(3000);</pre>  <p>The image shows two screenshots. The top screenshot is a web browser window with the address bar set to 'localhost:3000'. The page content displays 'Hello to Node JS by Utsav Dhimmar on browser'. The bottom screenshot is a Windows Command Prompt window with the title 'C:\Windows\System32\cmd.exe'. It shows the command 'D:\utsav-36\q17>node main.js' being executed, followed by two lines of output: 'Hello to Node JS by Utsav Dhimmar on node js Console'.</p>

18.	W.A.P that perform following function of FILE SYSTEM : 1. Read file 2. Create a new File 3. Append data in file 4. Rename file 5. Delete file
Ans.	<pre>// reading file var fs = require("fs"); var http = require("http"); http.createServer(function (req, res) { res.writeHead(200, { 'Content-Type': 'text/html' }); fs.readFile("./read.html", function (err, data) { if (err) { console.log(err); return; } else { res.write(data); console.log(data.toString()); res.end() } }); }).listen(8000);</pre>  <p>The screenshot shows a web browser window with the title 'Reading file'. The address bar displays 'localhost:8000'. The main content area shows 'Hello world !!!' in a large, bold, black serif font.</p>  <p>The screenshot shows a code editor window with the title 'read.html'. The menu bar includes 'File', 'Edit', and 'View'. The code content is as follows:</p> <pre><!DOCTYPE html> <html lang="en"> <head> <title>Reading file</title> </head> <body> <h1>Hello world !!!</h1> </body> </html></pre>

```
C:\Windows\System32\cmd.e x + v
D:\utsav-36\q18>node main.js
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Reading file</title>
  </head>
  <body>
    <h1>Hello world !!!</h1>
  </body>
</html>

<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Reading file</title>
  </head>
  <body>
    <h1>Hello world !!!</h1>
  </body>
</html>
```

```
// creating file
var fs = require("fs");
var http = require("http");
http.createServer(function (req, res) {
  res.writeHead(200, { 'Content-Type': 'text/html' });
  var data = "Hello Node JS from utsav !!!";
  fs.writeFile("./new-file.txt", data, function (err) {
    if (err) {
      console.log(err);
      return;
    }
    console.log(data);
    res.end(data)
  });
}).listen(8000);
```

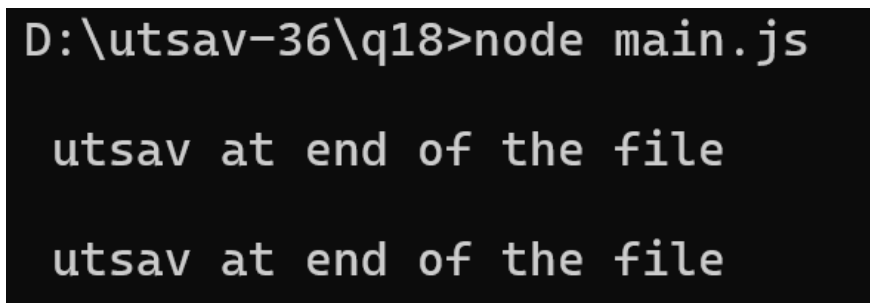
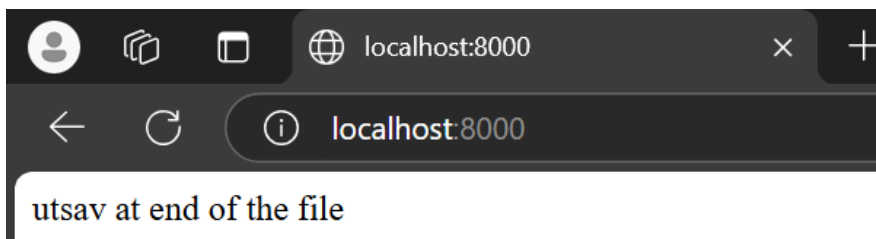


```
C:\Windows\System32\cmd.e x + v
D:\utsav-36\q18>node main.js
Hello Node JS from utsav !!!
Hello Node JS from utsav !!!
```



```
new-file.txt
File Edit View
Hello Node JS from utsav !!!
```

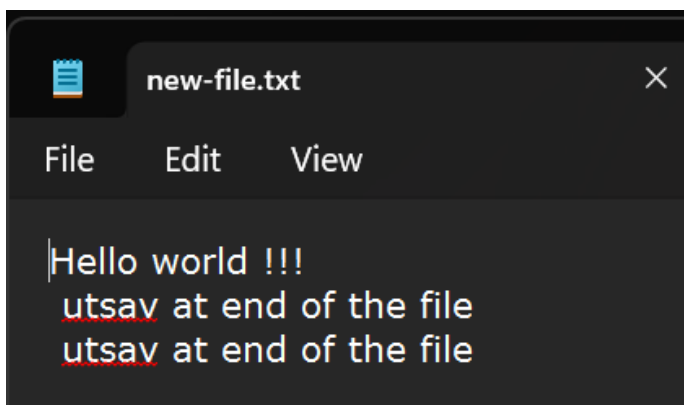
```
// appending
var fs = require("fs");
var http = require("http");
http.createServer(function (req, res) {
  res.writeHead(200, { 'Content-Type': 'text/html' });
  var newData = "\n utsav at end of the file";
  fs.appendFile("./new-file.txt", newData, function (err) {
    if (err) {
      console.log(err);
      return;
    }
    console.log(newData);
    res.end(newData)
  });
}).listen(8000);
```



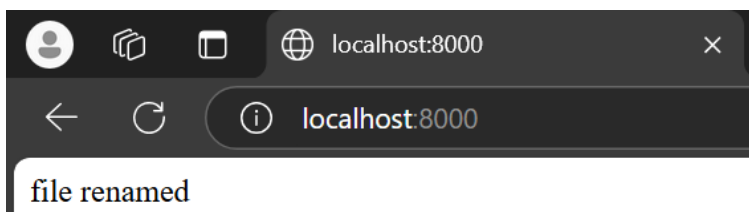
```
D:\utsav-36\q18>node main.js

utsav at end of the file

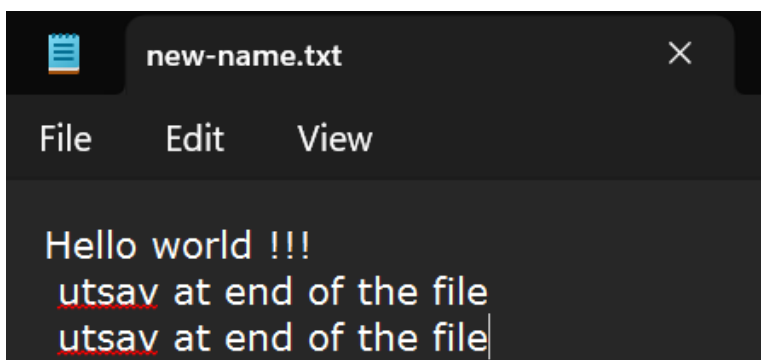
utsav at end of the file
```



```
// renaming
var fs = require("fs");
var http = require("http");
http.createServer(function (req, res) {
  res.writeHead(200, { 'Content-Type': 'text/html' });
  fs.rename("./new-file.txt", "./new-name.txt", function (err) {
    if (err) {
      console.log(err);
      return;
    }
    console.log("file renamed");
    res.end("file renamed");
  });
}).listen(8000);
```

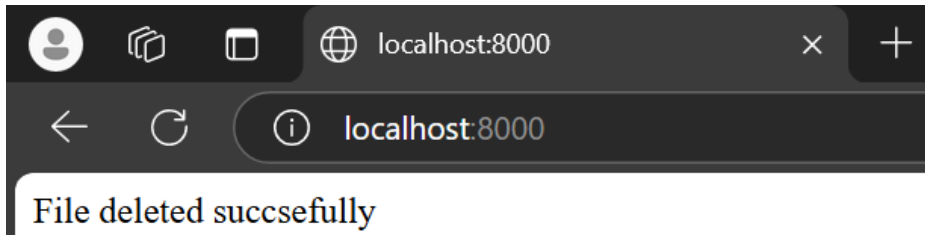


```
D:\utsav-36\q18>node main.js
file renamed
```



```
// delete
var fs = require("fs");
var http = require("http");
http.createServer(function (req, res) {
  res.writeHead(200, { 'Content-Type': 'text/html' });
  fs.unlink("./new-name.txt", function (err) {
    if (err) {
      console.log(err);
      return;
    }
    console.log("File deleted succsefully");
    res.end("File deleted succsefully");
  });
}).listen(8000);
```

```
D:\utsav-36\q18>node main.js  
File deleted succsefully
```



19.	W.A.P which fetch query string from URL using NODE.JS.
Ans.	<pre> var http = require("http"); var url = require("url"); http.createServer(function (req, res) { res.writeHead(200, { "Content-Type": "text/html", }); var queryData = url.parse(req.url, true).query; var name = queryData.name; var age = queryData.age; if (name && age) { res.write("<p> Name: " + name + "</p>"); res.write("<p> Age: " + age + "</p>"); } else { res.write("<p>Please add query parameter . </p>"); } console.log("Query parameter"); res.end(); }).listen(8000); </pre>   <pre> D:\utsav-36\q19>node main.js Query parameters undefined undefined Query parameters undefined undefined Query parameters utsav 18 Query parameters undefined undefined </pre>

20.	W.A.P to making a client based website using JQUERY.
Ans.	<pre> ----- index.html ----- <!DOCTYPE html> <html lang="en"> <head> <title>Home page</title> <link rel="stylesheet" href="../bootstrap/bootstrap.min.css" /> </head> <body> <div class="container mt-3"> <header> <h1 class="bg-primary h1 text-center p-2 text-white"> Online Movie Booking OOA Cinemas </h1> </header> <div class="row"> <div class="col-12 col-md-8 mx-auto"> <div class="col-12 col-md-8 mx-auto d-flex justify-content-center"> Home Register Login Logout </div> <div class="col-12 col-md-8 mx-auto d-flex justify-content-center"> Explore Movies About Us </div> </div> </div> </div> <div class="container"> <div class="jumbotron"> <h1 class="display-4">Welcome to OOA Cinemas!</h1> <p class="lead"> Watch movies at OOA Cinemas! See new hit movies, eat tasty snacks, and sit in comfy seats. It's a movie experience you won't forget! </p> <hr class="my-4" /> <p>Check out our movie list and find a good movie to watch.</p> Register first </div> </div> <script src="../jquery-3.7.1.min.js"></script> </body> </html> </pre>

```

----- register.html -----
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Registration page</title>
    <link rel="stylesheet" href="../bootstrap/bootstrap.min.css" />
  </head>
  <body>
    <div class="text-center">
      <h1>Registration page</h1>
      <button class="btn btn-primary" type="button" id="goback">Go back</button>
    </div>
    <div class="container mt-2">
      <form action="/login.html">
        <div class="form-group">
          <label for="username">Name:</label>
          <input type="text" name="username" id="username" placeholder="Enter your
name" class="form-control" />
          <p id="namewarn" class="invalid-feedback" style="display: none"></p>
        </div>
        <div class="form-group">
          <label for="phone">Phone: </label>
          <input type="number" name="userphone" id="phone" placeholder="Enter your
Mobile Number" class="form-control" />
          <p id="phoneno" class="invalid-feedback" style="display: none"></p>
        </div>
        <div class="form-group">
          <label for="email">Email: </label>
          <input type="email" name="useremail" id="email" placeholder="Enter your
email" class="form-control"/>
          <p id="emailwarn" class="invalid-feedback" style="display: none"></p>
        </div>
        <div class="form-group">
          <label for="password">Password: </label>
          <input type="password" name="userpassword" id="password" placeholder="Enter
your password" class="form-control"/>
          <p id="passwordwarn" class="invalid-feedback" style="display: none"></p>
        </div>
        <div class="form-group">
          <label for="age">Age: </label>
          <input type="number" name="userage" id="age" placeholder="Minimum age 16"
class="form-control" />
          <p id="ageno" class="invalid-feedback"></p>
        </div>
        <div class="form-group">
          <label>Gender:</label>
          <label class="form-check-label mr-3">
            <input type="radio" name="gender" value="male" /> Male
          </label>
          <label class="form-check-label">
            <input type="radio" name="gender" value="female" /> Female
          </label>
        </div>
      </form>
    </div>
  </body>
</html>

```

```

    <p id="genderwarn" class="invalid-feedback" style="display: none"></p>
  </div>
  <div class="form-group">
    <label for="city">City</label>
    <select class="form-control" id="city" title="city">
      <option value="">Select a city</option>
      <option value="navsari">Navsari</option>
      <option value="surat">Surat</option>
      <option value="vapi">Vapi</option>
      <option value="valsad">Valsad</option>
      <option value="dang">Dang</option>
    </select>
    <p id="citywarn" class="invalid-feedback" style="display: none"></p>
  </div>
  <div class="form-group">
    <input type="submit" value="Register" class="btn btn-primary"
id="RegisterBtn"/>
    <input type="reset" value="Reset" class="btn btn-secondary" id="resetBtn" />
  </div>
</form>
</div>
<script src="../jquery-3.7.1.min.js"></script>
<script src="validation.js"></script>
<script src="script.js"></script>
<script>
$(document).ready(function () {
  $("form").submit(handleValidation);
  $("#resetBtn").click(function () {
    $("#namewarn").text("").css("display", "none");
    $("#phoneno").text("").css("display", "none");
    $("#emailwarn").text("").css("display", "none");
    $("#passwordwarn").text("").css("display", "none");
    $("#ageno").text("").css("display", "none");
    $("#genderwarn").text("").css("display", "none");
    $("#citywarn").text("").css("display", "none");
  });
});
</script>
</body>
</html>

```

----- login.html -----

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Login page</title>
    <link rel="stylesheet" href="../bootstrap/bootstrap.min.css" />
  </head>
  <body>
    <div class="text-center">
      <h1 class="">Login page</h1>
    </div>
  </body>
</html>

```

```

<button class="btn btn-primary" type="button" id="goback">Go back</button>
</div>
<div class="container mt-2">
  <form action="./index.html">
    <div class="form-group">
      <label for="email">Email: </label>
      <input type="email" name="useremail" id="useremail" placeholder="Enter your
email" class="form-control" />
      <p id="emailwarn" class="invalid-feedback" style="display: none"></p>
    </div>
    <div class="form-group">
      <label for="password">Password: </label>
      <input type="password" name="userpassword" id="userpassword"
placeholder="Enter your password" class="form-control" />
      <p id="passwordwarn" class="invalid-feedback" style="display: none"></p>
    </div>
    <div class="form-group">
      <input type="submit" value="Register" class="btn btn-primary"
id="RegisterBtn"/>
      <input type="reset" id="resetBtn" value="Reset" class="btn btn-secondary"/>
    </div>
  </form>
</div>
<script src="./jquery-3.7.1.min.js"></script>
<script src="validation.js"></script>
<script src="script.js"></script>
<script>
$(document).ready(function () {
  var xhr = new XMLHttpRequest();
  xhr.open("GET", "loginData.xml", true);
  xhr.send();
  var xmlEmail = null;
  var xmlPass = null;
  xhr.onreadystatechange = function () {
    if (xhr.status == 200 && xhr.readyState == 4) {
      var res = xhr.responseXML;
      xmlEmail = res.getElementsByTagName("Email")[0].textContent;
      xmlPass = res.getElementsByTagName("Password")[0].textContent;
    }
  };

  $("#RegisterBtn").click(function validate(e) {
    var isValid = true;
    if ($("#useremail").val() != xmlEmail) {
      $("#emailwarn").css("display", "block").text("Invalid email");
      isValid = false;
    } else {
      $("#emailwarn").css("display", "none").text("");
    }
    if ($("#userpassword").val() != xmlPass) {
      $("#passwordwarn").css("display", "block").text("Invalid password");
      isValid = false;
    }
  });
});

```

```

    } else {
        $("#passwordwarn").css("display", "none").text("");
    }
    if (!isValid) {
        e.preventDefault();
    }
    });
    $("#resetBtn").click(function () {
        $("#passwordwarn").css("display", "none").text("");
        $("#emailwarn").css("display", "none").text("");
    });
    });
</script>
</body>
</html>

```

```

----- logout.html -----
<!DOCTYPE html>
<html lang="en">
<head>
<title>Logout</title>
<link rel="stylesheet" href="../bootstrap/bootstrap.min.css" />
</head>
<body>
<h1 id="msg" class="text-center display-4"></h1>
<h2 id="greet" class="text-center display-3"></h2>
<script src="../jquery-3.7.1.min.js"></script>
<script>
$(document).ready(function () {
    var xhr = new XMLHttpRequest();
    xhr.open("GET", "logout.xml", true);
    xhr.send();
    xhr.onreadystatechange = function () {
        if (xhr.readyState == 4 && xhr.status == 200) {
            var res = xhr.responseXML;
            var root = res.getElementsByTagName("Logout");
            $("#msg").text(root[0].getElementsByTagName("Message")[0].textContent);
            $("#greet").text(root[0].getElementsByTagName("Greet")[0].textContent);
        }
    };
    });
</script>
</body>
</html>

```

```

----- movieList.html-----
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>All Movies</title>
    <link rel="stylesheet" href="../bootstrap/bootstrap.min.css" />
  </head>
  <body>
    <div class="container mt-2">
      <div class="text-center">
        <h1>Movies</h1>
        <button class="btn btn-primary" type="button" id="goback">
          Go back
        </button>
      </div>
      <table class="table table-hover mt-2 table-bordered">
        <thead>
          <tr>
            <th>Number</th>
            <th>Movie Name</th>
            <th>Movie Description</th>
            <th>Movie Price</th>
          </tr>
        </thead>
      </table>
    </div>
    <script src="../jquery-3.7.1.min.js"></script>
    <script src="script.js"></script>
    <script>
      $(document).ready(function () {
        $("#goback").click(function () {
          window.history.back();
        });
        fetchData();
        function fetchData() {
          $.getJSON("data.json", function (data) {
            var movies = data.movies;
            var tbody = $("<tbody> </tbody>");
            $.each(movies, function (index, movie) {
              var number = $("<td> </td>").text(index + 1);
              var name = $("<td> </td>").text(movie.name);
              var desc = $("<td> </td>").text(movie.description);
              var price = $("<td> </td>").text(movie.price);
              var tr = $("<tr> </tr>").append(number, name, desc, price);
              tbody.append(tr);
            });
            $("table").append(tbody);
          });
        }
      });
    </script>
  </body>

```

```
</html>
```

```
----- about-us.html -----
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<title>About page</title>
```

```
<link rel="stylesheet" href="../bootstrap/bootstrap.min.css" />
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
<div class="text-center">
```

```
<h1>About page</h1>
```

```
<button class="btn btn-primary" type="button" id="goback">
```

```
Go back
```

```
</button>
```

```
</div>
```

```
<p class="my-4">
```

Welcome to OOA Cinemas, your premier destination for the ultimate movie experience! We're passionate about bringing you the latest blockbusters and timeless classics in a comfortable and immersive setting. Our state-of-the-art cinemas boast cutting-edge technology, including crystal-clear projection and immersive sound systems, ensuring you're fully captivated by every story. We offer a wide selection of films, from Hollywood hits and Bollywood sensations to independent gems and international cinema. Relax and enjoy the show with our delicious snacks and drinks, and let our friendly staff take care of the rest. At OOA Cinemas, we're more than just a movie theater – we're a community of film lovers dedicated to sharing the magic of cinema. Visit us today and experience the difference!

```
</p>
```

```
</div>
```

```
<script src="../jquery-3.7.1.min.js"></script>
```

```
<script src="script.js"></script>
```

```
</body>
```

```
</html>
```

```
----- validation.js -----
```

```
function handleValidation(e) {
```

```
var isValid = true;
```

```
var username = $("#username").val();
```

```
if (!username || !isNaN(username)) {
```

```
$("#namewarn").text("Enter your name").css("display", "block");
```

```
isValid = false;
```

```
} else {
```

```
$("#namewarn").text("").css("display", "none");
```

```
}
```

```
var phone = $("#phone").val();
```

```
if (phone.length !== 10) {
```



```

    $("#phoneno").text("Phone number should be 10 digits").css("display", "block");
    isValid = false;
} else {
    $("#phoneno").text("").css("display", "none");
}

var age = $("#age").val();
if (age < 16) {
    $("#ageno").text("Minimum age should be 16").css("display", "block");
    isValid = false;
} else {
    $("#ageno").text("").css("display", "none");
}

var gender = $('input[name="gender"]:checked').val();
if (!gender) {
    $("#genderwarn").text("Please select a gender").css("display", "block");
    isValid = false;
} else {
    $("#genderwarn").text("").css("display", "none");
}

var city = $("#city").val();
if (!city) {
    $("#citywarn").text("Please select a city").css("display", "block");
    isValid = false;
} else {
    $("#citywarn").text("").css("display", "none");
}

var email = $("#email").val();
if (email.indexOf("@") < 1 || email.lastIndexOf(".") - email.indexOf("@") < 2) {
    $("#emailwarn").text("Please enter a valid email").css("display", "block");
    isValid = false;
} else {
    $("#emailwarn").text("").css("display", "none");
}

var password = $("#password").val();
if (password.length < 8) {
    $("#passwordwarn").text("Password should be at least 8 characters").css("display",
"block");
    isValid = false;
} else {
    $("#passwordwarn").text("").css("display", "none");
}

if (!isValid) {
    e.preventDefault();
}
return isValid;
}

```

```
----- script.js -----
$(document).ready(function () {
  $("body").prepend(
    <div class="container mt-3">
      <header>
        <h1 class="bg-primary h1 text-center p-2 text-white">
          Online Movie Booking OOA Cinemas
        </h1>
      </header>
    </div>`)
  $("#goback").click(function () {
    window.history.back();
  });
})
```

```
----- data.json -----
{
  "movies": [
    {
      "name": "Avatar: The Way of Water",
      "description": "Jake Sully and Neytiri form a family and fight to protect Pandora.",
      "price": "₹250"
    },
    {
      "name": "Interstellar",
      "description": "A team of explorers travel through a wormhole in search of a new home for humanity.",
      "price": "₹220"
    },
    {
      "name": "Pathaan",
      "description": "An ex-RAW agent is tasked with taking down a terrorist organization.",
      "price": "₹200"
    },
    {
      "name": "Jawan",
      "description": "A vigilante sets out to correct the wrongs in society.",
      "price": "₹230"
    },
    {
      "name": "K.G.F: Chapter 2",
      "description": "Rocky's quest for power and control continues.",
      "price": "₹210"
    },
    {
      "name": "RRR",
      "description": "A fictional story about two Indian revolutionaries and their fight against the British Raj.",
      "price": "₹240"
    }
  ]
}
```

```

{
  "name": "Oppenheimer",
  "description": "The story of J. Robert Oppenheimer and the development of the
atomic bomb.",
  "price": "₹260"
},
{
  "name": "Barbie",
  "description": "Barbie and Ken leave Barbie Land and travel to the real world.",
  "price": "₹230"
},
{
  "name": "Ponniyin Selvan: Part 1",
  "description": "A historical epic about the Chola dynasty.",
  "price": "₹190"
},
{
  "name": "Vikram",
  "description": "A black ops agent is tasked with taking down a drug syndicate.",
  "price": "₹200"
}
]
}

```

----- logoutData.xml -----

```

<?xml version="1.0" encoding="utf-8"?>
<User>
  <Email>utsavdh@gmail.com</Email>
  <Password>123456</Password>
</User>

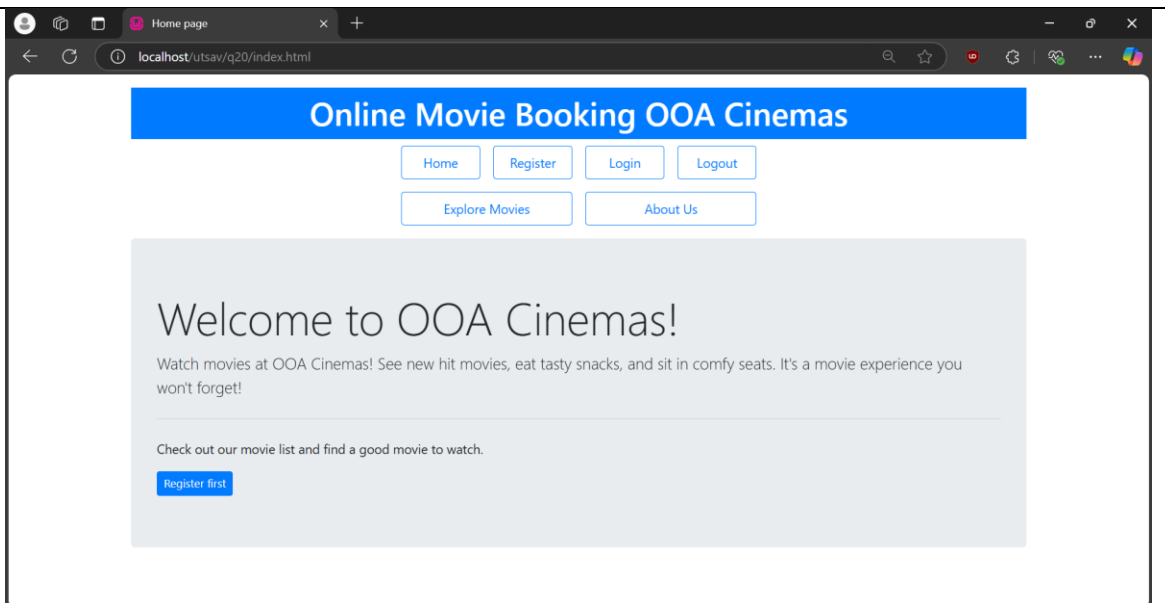
```

----- logout.xml -----

```

<?xml version="1.0" encoding="UTF-8"?>
<Logout>
  <Message> Thank you visiting website</Message>
  <Greet>Bye Bye</Greet>
</Logout>

```



The screenshot shows a web browser window with the URL `localhost/utsav/q20/register.html`. The page has a blue header with the text "Online Movie Booking OOA Cinemas" and a subheader "Registration page". Below the subheader, there is a "Go back" button. The registration form consists of several fields with labels and validation messages:

- Name:** A text input field with the placeholder "Enter your name". Below it, a red validation message says "Enter your name".
- Phone:** A text input field with the placeholder "Enter your Mobile Number". Below it, a red validation message says "Phone number should be 10 digits".
- Email:** A text input field with the placeholder "Enter your email". Below it, a red validation message says "Please enter a valid email".
- Password:** A text input field with the placeholder "Enter your password". Below it, a red validation message says "Password should be at least 8 characters".
- Age:** A text input field with the placeholder "Minimum age 16". Below it, a red validation message says "Minimum age should be 16".
- Gender:** Radio buttons for "Male" and "Female". Below them, a red validation message says "Please select a gender".
- City:** A dropdown menu with the placeholder "Select a city". Below it, a red validation message says "Please select a city".

At the bottom of the form, there are two buttons: "Register" (blue) and "Reset" (gray).

The screenshot shows a web browser window with the title "Registration page". The URL is "localhost/utsav/q20/register.html". The page has a blue header with the text "Online Movie Booking OOA Cinemas". Below the header, the title "Registration page" is centered, followed by a "Go back" button. The registration form includes the following fields: Name (filled with "utsav"), Phone (filled with "6355595923"), Email (filled with "utsavdhimmar987@gmail.com"), Password (filled with "*****"), Age (filled with "16"), Gender (radio buttons for Male and Female, with Male selected), and City (a dropdown menu filled with "Navsari"). At the bottom of the form are "Register" and "Reset" buttons.

The screenshot shows a web browser window with the title "Login page". The URL is "localhost/utsav/q20/login.html?username=utsav&userphone=6355595923&useremail=utsavdhimmar987%40gmail.com&userpas...". The page has a blue header with the text "Online Movie Booking OOA Cinemas". Below the header, the title "Login page" is centered, followed by a "Go back" button. The login form includes the following fields: Email (filled with "Enter your email", with a red error message "Invalid email" below it) and Password (filled with "Enter your password", with a red error message "Invalid password" below it). At the bottom of the form are "Register" and "Reset" buttons.

The screenshot shows a web browser window with the title "Login page". The URL is "localhost/utsav/q20/login.html?username=utsav&userphone=6355595923&useremail=utsavdhimmar987%40gmail.com&...". The page has a blue header with the text "Online Movie Booking OOA Cinemas". Below the header, the title "Login page" is centered, followed by a "Go back" button. The login form includes the following fields: Email (filled with "utsavdh@gmail.com") and Password (filled with "*****"). At the bottom of the form are "Register" and "Reset" buttons.

