

Ex no:	PROGRAMS USING JAVASCRIPT ARRAYS
Date:	

Aim

To develop a program using Java script array methods.

1. Question

Write a Javascript code to perform following array methods().

- ☐ Create an Array of 7 items including number and string , stored inside a variable called myArray and display it in console window.
- ☐ Next, modify the first two items in the array using simple bracket notation and assignment.
- ☐ Then add a new item to the beginning of the array and a item at the end of Array.Display it in the console window
- ☐ Remove the last item in the array.
- ☐ Convert the string into an array.
- ☐ Arrange the array in ascending order, then slice it.
- ☐ Join the arrays together in a single array.

Code

```

<!DOCTYPE html>
<html>
<body>
<script type="text/javascript">
var myArray = [1,'IT','AI&DS','CS','CT','CY','MECH'];
document.write(myArray);
document.write("<br>");
document.write(myArray[2]);
document.write("<br>");
myArray[2] = 'AD';
document.write(myArray);
document.write("<br>");
myArray.push('ECE');
myArray.unshift('KARPAGAM'
);document.write(myArray);
document.write("<br>");
myArray.pop();
document.write(myArray);
document.write("<br>");
document.write(myArray.length
);document.write("<br>");

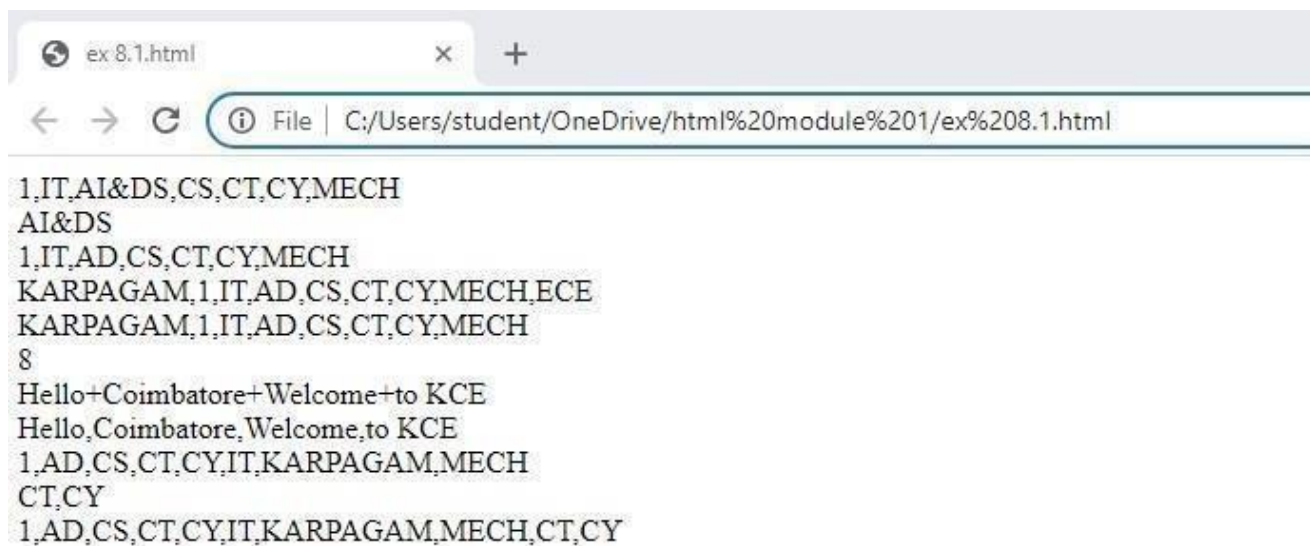
```

```

var myString = "Hello+Coimbatore+Welcome+to KCE";
document.write(myString);
document.write("<br>");
var myArray1 = myString.split("+");
document.write(myArray1);
document.write("<br>");
myArray.sort();
document.write(myArray);
document.write("<br>");
const newArray = myArray.slice(3,5);
document.write(newArray);
document.write("<br>");
const mynewArray =
myArray.concat(newArray);
document.write(mynewArray);
document.write("<br>");
</script>
</body>
</html>

```

Output:

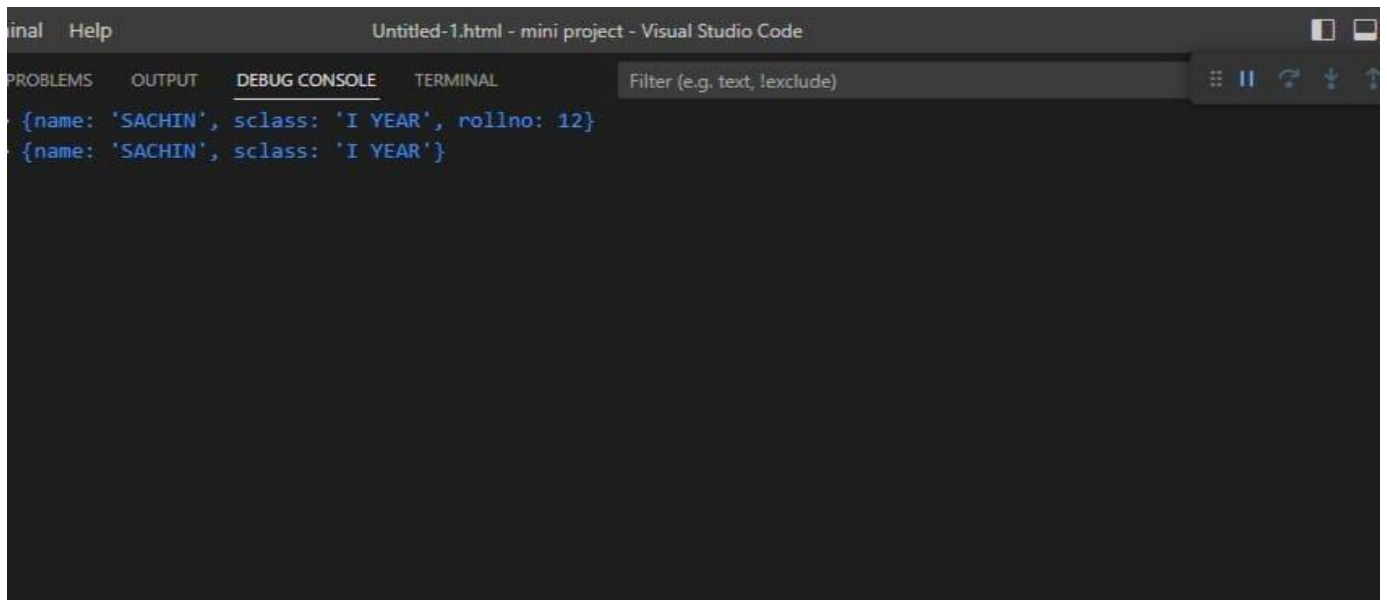


2. A.Question

Write a JavaScript program to create a object array & delete the rollno property from the object. Also print the object before or after deleting the property.

Code

```
<!DOCTYPE html>
<html>
<head>
<title>Delete a property from an object</title>
<script>
var student =
{
name : "SACHIN",
sclass : "I YEAR",
rollno : 12 };
console.log(student);
delete student.rollno;
console.log(student);
</script>
</head>
<body>
</body>
</html>
```

Output

```
Visual Studio Code
Untitled-1.html - mini project - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL Filter (e.g. text, !exclude)
{name: 'SACHIN', sclass: 'I YEAR', rollno: 12}
{name: 'SACHIN', sclass: 'I YEAR'}
```

B.Question

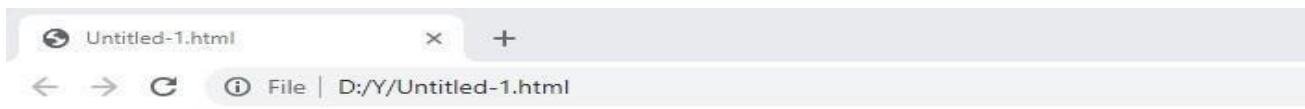
Using Function perform arithmetic operation and Onclick Event.

Code

```
<!DOCTYPE html>
<html>
<body>
<h1>JavaScript Functions</h1>
<p>Call a function which performs a calculation and returns the result:</p>
<p id="demo"></p>
<script>
let x = myFunction(4, 3);
document.getElementById("demo").innerHTML
= x;function myFunction(a, b) {

return a * b;
}
</script>
</body>
</html>

<!DOCTYPE html>
<html>
<body>
<h2>JavaScript HTML Events</h2>
<p>Click the button to display the date.</p>
<button onclick="displayDate()">The time is?</button>
<script>
function displayDate() {
document.getElementById("demo").innerHTML =
Date();
}
</script>
<p id="demo"></p>
</body>
</html>
```

Output:

JavaScript Functions

Call a function which performs a calculation and returns the result:

Thu Jul 27 2023 09:11:42 GMT+0530 (India Standard Time)

JavaScript HTML Events

Click the button to display the date.

The time is?

Result

Thus, the formatting was applied and the webpage has been successfully developed and the output was verified.

PREPARATION	30	
LAB PERFORMANCE	30	
REPORT	40	
TOTAL	100	
INITIAL OF FACULTY		

Ex no:	PROGRAMS USING OOPs AND PROTOTYPE.
Date:	

Aim

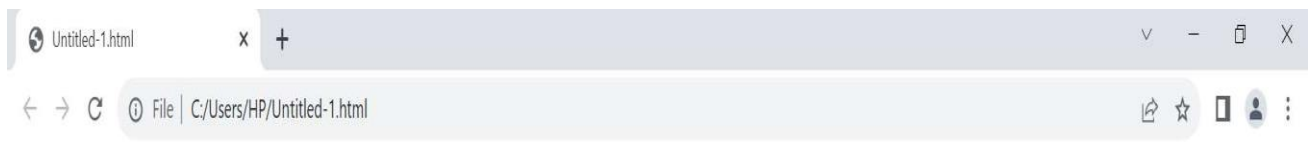
To develop the program using oops and prototype method.

1: Question

Write a JavaScript program to create object has a property named prototype.

Code

```
<!DOCTYPE html>
<html>
<body>
<h2>JavaScript Objects</h2>
<p>Using an object constructor:</p>
<p id="demo"></p>
<script>
function Person () {
this.name = 'John',
this.age = 23
}
const person = new Person();
document.write(Person.prototype);
document.getElementById("demo").innerHTML = "Person name is " + person.name + " Person age is " + person.age;
</script>
</body>
```

Output**JavaScript Objects**

Using an object constructor:

Person name is John Person age is 23

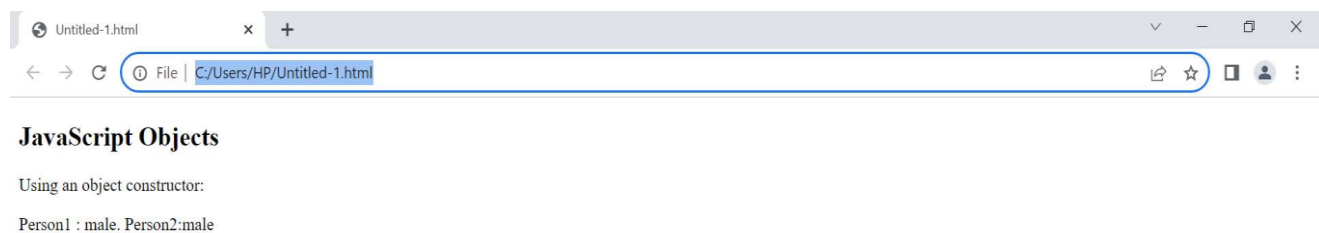
2: Question

Write a JavaScript program to inherit object properties and methods from a prototype.

Code

```
<!DOCTYPE html>
<html>
<body>
<h2>JavaScript Objects</h2>
<p>Using an object constructor:</p>
<p id="demo"></p>
<script>
function Person () {
this.name = 'John',
this.age = 23
}
const person1 = new Person();
const person2 = new Person();
Person.prototype.gender = 'male';
document.getElementById("demo").innerHTML =
"Person1 : " + person1.gender + ". Person2:" + person2.gender;
</script>
</body>
</html>
</html>
```

Output

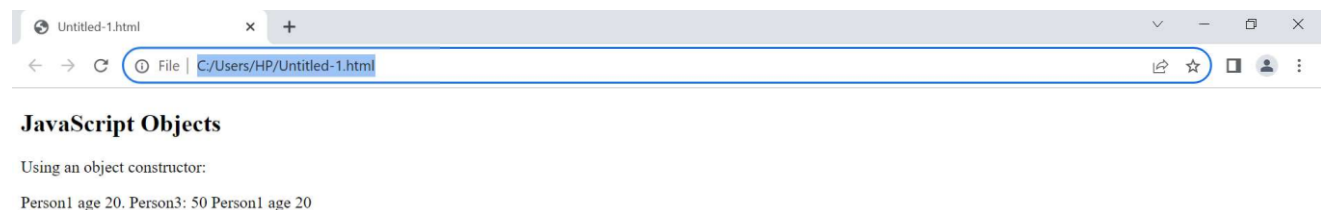


3 : Question

Write a JavaScript program to create object has a property named Changing Prototype.

Code

```
<!DOCTYPE html>
<html>
<body>
<h2>JavaScript Objects</h2>
<p>Using an object constructor:</p>
<p id="demo"></p>
<script>
function Person() {
this.name = 'John'
}
var Person1 = new Person();
Person.prototype.age = 20;
document.getElementById("demo").innerHTML="Person1 age " + Person1.age;
Person.prototype = { age: 50 }
const person3 = new Person();
document.getElementById("demo").innerHTML =
"Person1 age " + Person1.age + ". Person3:" + " "+person3.age+" Person1 age " + Person1.age;;
</script>
</body>
</html>
```

Output

Result

Thus, the formatting was applied and the webpage has been successfully developed and the output was verified.

PREPARATION	30	
LAB PERFORMANCE	30	
REPORT	40	
TOTAL	100	
INITIAL OF FACULTY		

Ex no:	PROGRAM USING JAVASCRIPT BROWSER OBJECT MODEL.
Date:	

Aim

To develop the programs using javascript browser object model.

1: Question

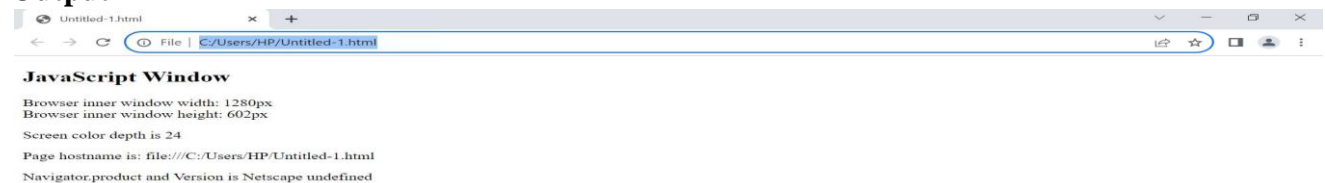
Create a JavaScript Program to demonstrate the following Browser Object Model.

1.Window

2.Navigator

Code

```
<!DOCTYPE html>
<html>
<body>
<h2>JavaScript Window</h2>
<p id="demo"></p>
<p id="demo1"></p>
<p id="demo2"></p>
<p id="demo3"></p>
<script>
document.getElementById("demo").innerHTML =
"Browser inner window width: " + window.innerWidth + "px<br>" +
"Browser inner window height: " + window.innerHeight + "px";
document.getElementById("demo1").innerHTML = "Screen color depth is " + screen.colorDepth;
document.getElementById("demo2").innerHTML = "Page hostname is: " + window.location.href;
document.getElementById("demo3").innerHTML = "Navigator.product and Version is " +
navigator.appName+ " "+navigator.productversion;
</script>
</body>
</html>
```

Output

2: Question

Create a JavaScript Program to demonstrate the following Browser Object Model.

1. Timing
2. Cookies

Code

1. Timing

```
<!DOCTYPE html>
<html>
<body>
<h2>JavaScript Timing</h2>
<p>Click "Try it". Wait 3 seconds, and the page will alert "Hello".</p>
<button onclick="setTimeout(myFunction, 3000);">Try it</button>
<script>
function myFunction() {
alert('Hello');
}
</script>
</body>
</html>
```

Output

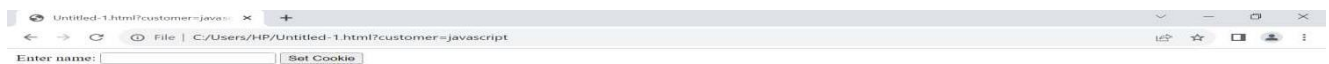


2.Cookies

Code

```
<!DOCTYPE html>
<html>
<head>
<script type = "text/javascript">
function WriteCookie()
{
var now = new Date();
now.setMonth( now.getMonth() + 1 );
cookievalue = escape(document.myform.customer.value) + ";";
document.cookie="name=" + cookievalue;
document.cookie = "expires=" + now.toUTCString() + ";";
document.write ("Setting Cookies : " + "name=" + cookievalue );
}
</script>
</head>
<body>
<form name = "myform" action = "">
Enter name: <input type = "text" name = "customer"/>
<input type = "button" value = "Set Cookie" onclick = "WriteCookie()"/>
</form>
</body>
</html>
```

Output



Result

Thus, the formatting was applied and the webpage has been successfully developed and the output was verified.

PREPARATION	30	
LAB PERFORMANCE	30	
REPORT	40	
TOTAL	100	
INITIAL OF FACULTY		

Ex no:	PROGRAM USING JAVASCRIPT FORM VALIDATION.
Date:	

Aim

To develop the programs using javascript form validation

Question

Design the following web page using HTML and validate the form using JavaScript based on given specification.

Specification to validate the form:

1. Name and email field should not be null
2. Name should not have single characters
3. Email id should not be less than 10 characters before @

Code

```
<!DOCTYPE html>
<html>
<head>
<title>Form Validation</title>
</head>
<body>
<script>
function validate() {
var name = document.forms["Review Form"]["name"].value;
var mail = document.forms["Review Form"]["mail"].value;
if (name == "" || mail == "")
alert("Please enter your Name and E Mail ID.");
else {
var name1 = name.split(" ");
var n = name1.length;
for (i = 0; i < n; i++)
```

```

if (name1[i].length <= 1)
alert("Name should not contain single characters.");
else {
var mail1 = mail.split("@");
if (mail1[0].length <= 10)
alert("Mail Id should have more than 10 characters.")
else

document.write(name + " with " + mail + " was successfully submitted the
review.");
}
}
}
</script>
<form name="Review Form" action="/success.html" method="get">
<fieldset>
<legend> Your Details</legend>
<label>Name:</label><input type="text" name="name"><br>
<label>Email:</label><input type="text" name="mail">
</fieldset> <br><br>
<fieldset>
<legend>Your Review</legend>
<label>How did you hear about us?</label>
<select>
<option value="G">Google</option>
<option value="M">Microsoft</option>
<option value="E">Edge</option>
</select>
<br>
<label>Would you visit again?</label><br>
<input type="radio" id="YES" name="y" value="yes">Yes
<input type="radio" id="NO" name="y" value="no">N0
<input type="radio" id="MAY BE" name="y" value="may be">May be<br><br>
<label>Comments:</label><br>
<textarea></textarea><br>
<input type="checkbox" checked>Sign me up for email updates<br>
<input type="button" value="submit review" onclick="validate()">
</fieldset>
</form>
</body>
</html>

```

Output

Form Validation

File | C:/Users/HP/Untitled-1.html

Your Details

Name:

Email:

Your Review

How did you hear about us? Google ▼

Would you visit again?

☐ Yes ☐ NO ☐ May be

Comments:

☐ Sign me up for email updates

Result

Thus, the formatting was applied and the webpage has been successfully developed and the output was verified.

PREPARATION	30	
LAB PERFORMANCE	30	
REPORT	40	
TOTAL	100	
INITIAL OF FACULTY		

Ex no:	PROGRAM USING AJAX (XML HTTP REQUEST).
Date:	

Aim

To develop the programmes using ajax (xml http request).

1: Question

Design the web page using Ajax to get two images from server when button is clicked and display in the web page.

Code**Ajax1.html**

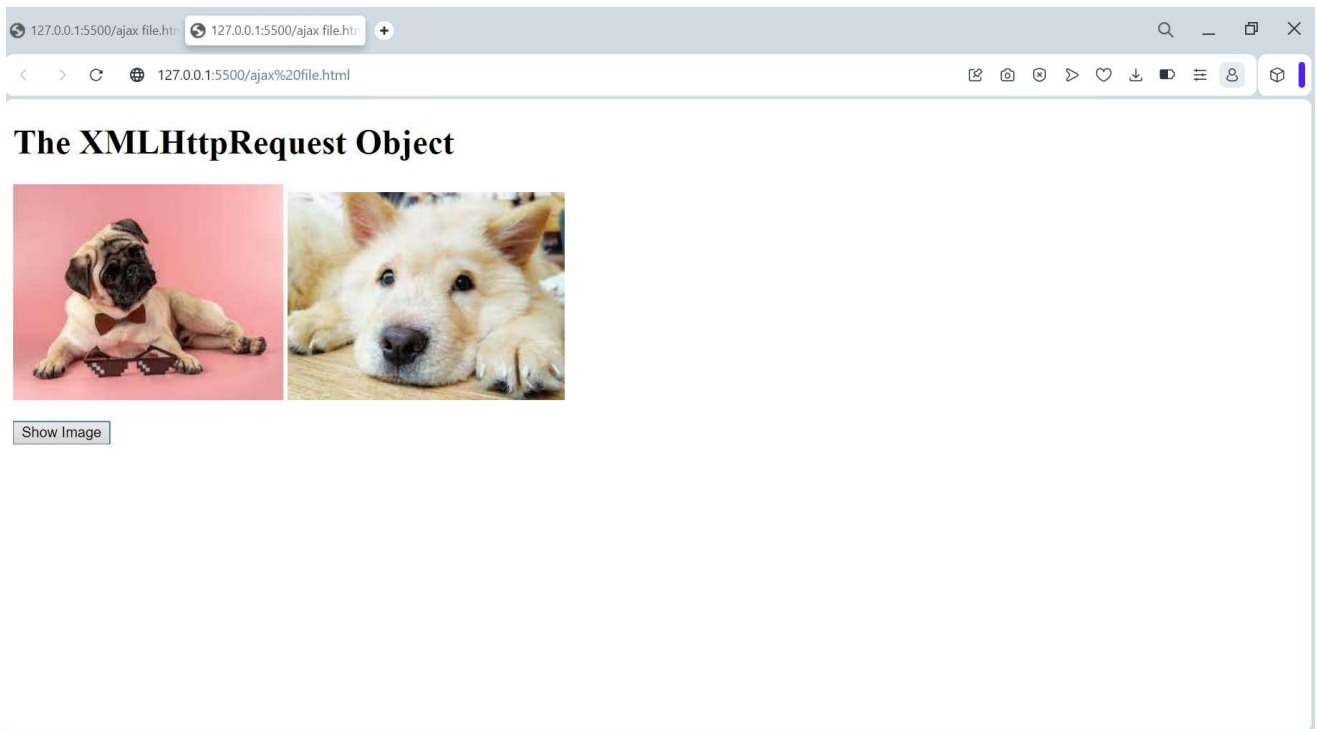
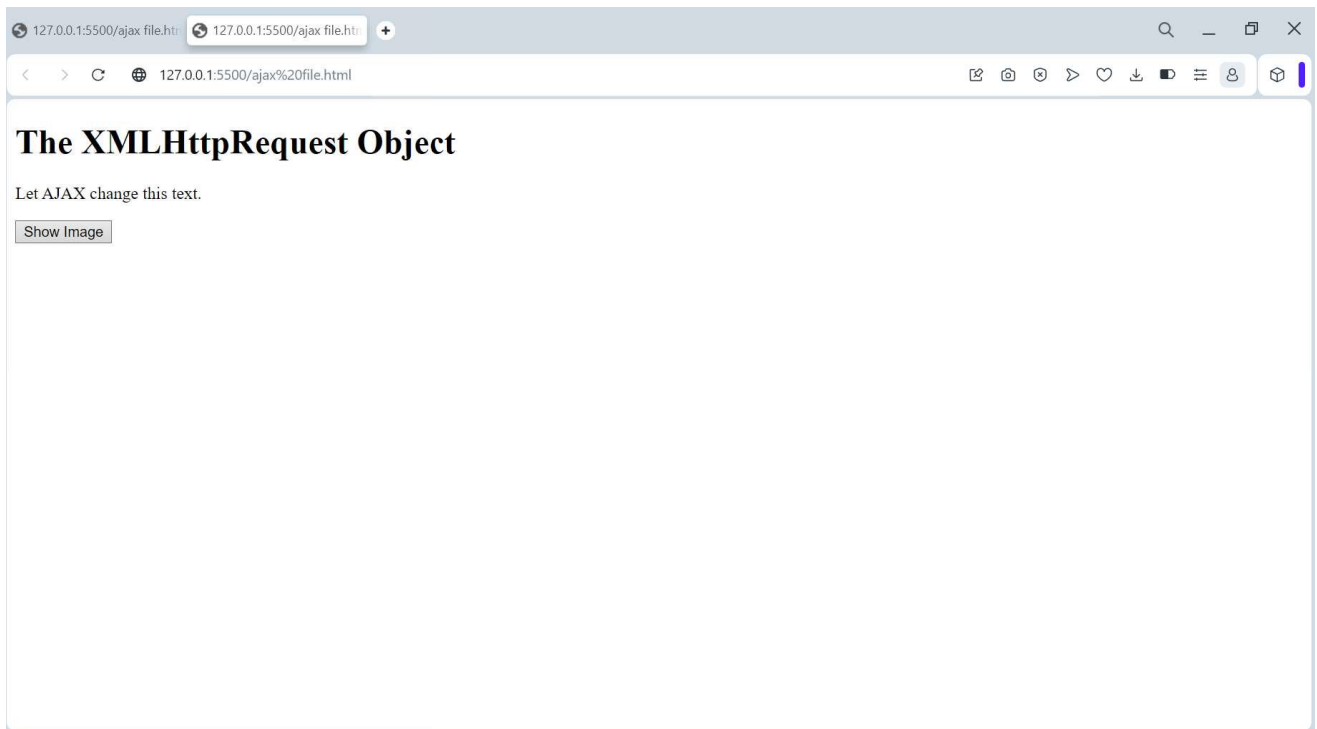
```
<!DOCTYPE html>
<html>
<body>
<h1>The XMLHttpRequest Object</h1>
<p id="demo">Let AJAX change this text.</p>
<button type="button" onclick="loadDoc()">Show Image</button>
<script>
function loadDoc() {
var xhttp = new XMLHttpRequest();
xhttp.onreadystatechange = function() {
if (this.readyState == 4 && this.status == 200) {
document.getElementById("demo").innerHTML = this.responseText;}};
xhttp.open("GET", "image.txt", true);
xhttp.send();}
</script>
</body>
</html>
```

Image.txt

```


```

Output



2: Question

Design the web page using Ajax to display rotate the box along with text in the web page.

Code**ajax.html**

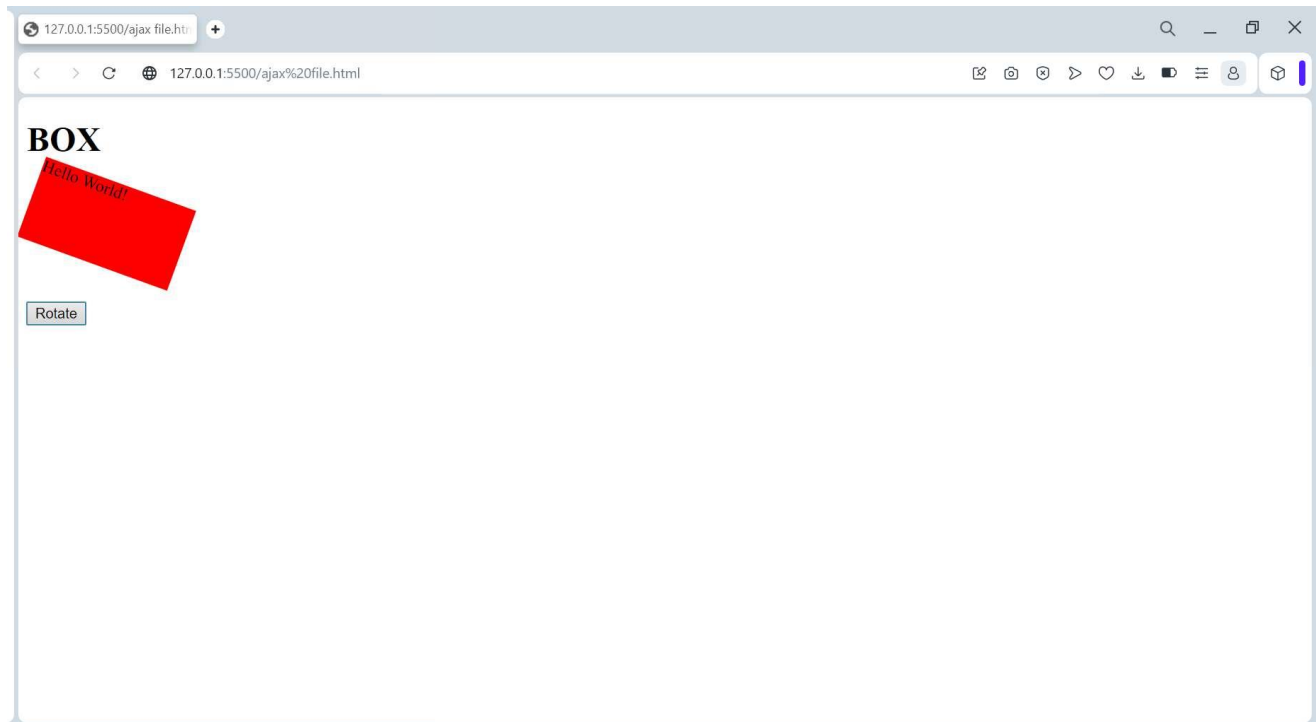
```
<!DOCTYPE html>
<html>
<body>
<h1>BOX</h1>
<p id="demo">ROTATION OF BOX</p>
<button type="button" onclick="loadDoc()">Rotate</button>
<script>
function loadDoc() {
var xhttp = new XMLHttpRequest();
xhttp.onreadystatechange = function() {

if (this.readyState == 4 && this.status == 200) {
document.getElementById("demo").innerHTML = this.responseText;}};
xhttp.open("GET", "image.txt", true);
xhttp.send();}
</script>
</body>
</html>
```

Image.txt

```
<style>
div.b {
width: 150px;
height: 80px;
background-color:red;
transform: rotate(20deg);
}
</style>
<body>
<div class="b">Hello World!</div>
<br>
</body>
```

Output



Result

Thus, the formatting was applied and the webpage has been successfully developed and the output was verified.

PREPARATION	30	
LAB PERFORMANCE	30	
REPORT	40	
TOTAL	100	
INITIAL OF FACULTY		