**8 B. Develop a PHP program (with HTML/CSS) to sort the student records which are stored in the database using selection sort.**

<html>

<body>

<style>

table,

td,

th {

border: 1px solid black;

width: 33%;

text-align: center;

border-collapse: collapse;

background-color: lightblue;

}

table {

margin: auto;

}

</style>

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "web";

$a=[];

$conn = mysqli\_connect($servername, $username, $password, $dbname);

if (!$conn)

die("Connection failed: " . $conn->connect\_error);

$crt="create table student1(usn varchar(20),name varchar(20),address varchar(20))";

$result0= mysqli\_query($conn,$crt);

$crt1="INSERT INTO `student1`(`usn`, `name`, `address`) VALUES ('1tj22cs004','name1','add1')";

$crt2="INSERT INTO `student1`(`usn`, `name`, `address`) VALUES ('1tj22cs001','name2','add2')";

$crt3="INSERT INTO `student1`(`usn`, `name`, `address`) VALUES ('1tj22cs005','name3','add3')";

$result1= mysqli\_query($conn,$crt1);

$result2= mysqli\_query($conn,$crt2);

$result3= mysqli\_query($conn,$crt3);

$sql = "SELECT \* FROM student1";

$result = mysqli\_query($conn,$sql);

echo "<br>";

echo "<center> BEFORE SORTING </center>"; echo "<table border='2'>";

echo "<tr>";

echo "<th>USN</th><th>NAME</th><th>Address</th></tr>";

if ($result->num\_rows> 0)

{

while($row = $result->fetch\_assoc())

{

echo "<tr>";

echo "<td>". $row["usn"]."</td>";

echo "<td>". $row["name"]."</td>";

echo "<td>". $row["address"]."</td></tr>";

array\_push($a,$row["usn"]);

}

}

else

echo "Table is Empty";

echo "</table>";

$n=count($a);

$b=$a;

for($i=0;$i<($n-1);$i++)

{

$pos= $i;

for ( $j = $i + 1 ; $j < $n ; $j++ )

{

if ( $a[$pos] > $a[$j] )

$pos= $j;

}

if ( $pos!= $i )

{

$temp=$a[$i];

$a[$i] = $a[$pos];

$a[$pos] = $temp;

}

}

$c=[];

$d=[];

$result = $conn->query($sql);

if ($result->num\_rows> 0)

{

while($row = $result->fetch\_assoc())

{

for($i=0;$i<$n;$i++)

{

if($row["usn"]== $a[$i])

{

$c[$i]=$row["name"];

$d[$i]=$row["address"];

}

}

}

}

echo "<br>";

echo "<center> AFTER SORTING <center>";

echo "<table border='2'>";

echo "<tr>";

echo "<th>USN</th><th>NAME</th><th>Address</th></tr>";

for($i=0;$i<$n;$i++)

{

echo "<tr>";

echo "<td>". $a[$i]."</td>";

echo "<td>". $c[$i]."</td>";

echo "<td>". $d[$i]."</td></tr>";

}

echo "</table>";

$conn->close();

?>

</body>

</html>

**9.**Develop jQuery script (with HTML/CSS) for:  
**a)** Appends the content at the end of the existing paragraph and list.  
**b)**Change the state of the element with CSS style using animate() method.  
**c)**Change the color of any div that is animated.

<!DOCTYPE html>

<head>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

<title>jQuery Example | vtucode</title>

<style>

body {

font-family: 'Roboto', sans-serif;

background-color: #f4f7f6;

margin: 0;

padding: 0;

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

}

.container {

text-align: center;

background: #fff;

padding: 30px;

border-radius: 12px;

box-shadow: 0 4px 20px rgba(0, 0, 0, 0.1);

transition: transform 0.3s ease-in-out;

}

.container:hover {

transform: scale(1.02);

}

#paragraph {

margin-bottom: 20px;

color: #333;

font-size: 18px;

line-height: 1.5;

}

#list {

margin-bottom: 20px;

list-style: none;

padding: 0;

}

#list li {

background: #e8f0fe;

margin: 5px 0;

padding: 10px;

border-radius: 8px;

transition: background 0.3s;

}

#list li:hover {

background: #d0e2fe;

}

.box {

padding: 0 10px;

width: 100px;

height: 100px;

background-color: #007bff;

margin: 20px auto;

line-height: 100px;

color: white;

text-align: center;

border-radius: 8px;

transition: all 0.3s ease;

}

button {

padding: 12px 24px;

margin: 10px;

cursor: pointer;

border: none;

border-radius: 6px;

font-size: 16px;

background: #007bff;

color: white;

transition: box-shadow 0.3s, transform 0.2s;

box-shadow: 0 4px 10px rgba(0, 0, 0, 0.1);

}

button:hover {

box-shadow: 0 0 0 2px #fff, 0 0 0 4px #007bff;

}

button:focus {

box-shadow: 0 0 0 2px #fff, 0 0 0 4px #007bff;

}

button:active {

background: #004494;

transform: translateY(0);

}

</style>

</head>

<body>

<div class="container">

<p id="paragraph">This is an existing paragraph.</p>

<ul id="list">

<li>List item 1</li>

<li>List item 2</li>

</ul>

<div class="box" id="box">Animate me!</div>

<button id="appendButton">Append Content</button>

<button id="animateButton">Animate Box</button>

</div>

<script>

$(document).ready(function () {

$("#appendButton").click(function () {

$("#paragraph").append(" Appended text.");

$("#list").append("<li>New appended list item</li>");

});

$("#animateButton").click(function () {

$("#box").stop(true, true).css({

width: "100px",

height: "100px",

opacity: 1,

backgroundColor: "blue"

}).animate({

width: "200px",

height: "200px",

opacity: 0.5

}, 1000, function () {

$(this).css("background-color", "green");

});

});

});

</script>

</body>

</html>

**10**Develop a JavaScript program with Ajax (with HTML/CSS) for:  
**a)** Use ajax() method (without Jquery) to add the text content from the text file by sending ajax request.  
**b)**Use ajax() method (with Jquery) to add the text content from the text file by sending ajax request.  
**c)** Illustrate the use of getJSON() method in jQuery.

**d)**Illustrate the use of parseJSON() method to display JSON values.

create two separate file within the same folder one is textfile.txt and other data.json then copy below text for the both separate file and paste it save it.

textfile.txt

hi this is example text...

data.json

{"name":"John Doe","age":30,"city":"New York","skills":["JavaScript","React","Node.js"],"address":{"street":"123 Elm Street","zipcode":"10001"},"projects":[{"name":"Website Redesign","year":2023,"technologies":["HTML","CSS","JavaScript"]},{"name":"Mobile App","year":2024,"technologies":["React Native","Expo"]}]}

<!DOCTYPE html>

<head>

<title>AJAX Examples | vtucode</title>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>

<style>

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

background-color: #f4f4f9;

}

h1 {

text-align: center;

color: #333;

padding: 20px 0;

}

#content {

flex-direction: column;

display: flex;

max-width: 600px;

margin: 20px auto;

padding: 20px;

border: 1px solid #ddd;

border-radius: 8px;

background-color: #fff;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

}

button {

display: inline-block;

padding: 10px 15px;

margin: 12px;

border: none;

border-radius: 5px;

background-color: #007bff;

color: #fff;

font-size: 16px;

cursor: pointer;

transition: box-shadow 0.3s;

}

button:hover {

box-shadow: 0 0 0 2px #fff, 0 0 0 4px #007bff;

}

button:focus {

box-shadow: 0 0 0 2px #fff, 0 0 0 4px #007bff;

}

#output {

display: none;

margin-top: 20px;

padding: 10px;

border-radius: 5px;

white-space: pre-wrap;

max-height: 300px;

overflow-y: auto;

}

#output.plain-ajax {

background-color: #f0f8ff;

border: 1px solid #b0c4de;

}

#output.jquery-ajax {

background-color: #f5fffa;

border: 1px solid #98fb98;

}

#output.jquery-json {

background-color: #fffaf0;

border: 1px solid #ffd700;

}

#output.parse-json {

background-color: #fff0f5;

border: 1px solid #ff69b4;

}

</style>

</head>

<body>

<h1>AJAX Examples</h1>

<div id="content">

<button id="plain-ajax-btn">Load Text (Plain AJAX)</button>

<button id="jquery-ajax-btn">Load Text (jQuery AJAX)</button>

<button id="jquery-json-btn">Load JSON (jQuery getJSON)</button>

<button id="parse-json-btn">Load and Parse JSON (jQuery get)</button>

<div id="output"></div>

</div>

<script>

function showOutput(className) {

const output = document.getElementById('output');

output.className = className;

output.style.display = 'block';

}

document.getElementById('plain-ajax-btn').addEventListener('click', function () {

var xhr = new XMLHttpRequest();

xhr.open('GET', 'textfile.txt', true);

xhr.onload = function () {

if (xhr.status === 200) {

document.getElementById('output').innerText = xhr.responseText;

} else {

document.getElementById('output').innerText = 'Error loading file.';

}

showOutput('plain-ajax');

};

xhr.send();

});

$('#jquery-ajax-btn').on('click', function () {

$.ajax({

url: 'textfile.txt',

method: 'GET',

success: function (data) {

$('#output').text(data);

},

error: function () {

$('#output').text('Error loading file.');

}

}).always(function () {

showOutput('jquery-ajax');

});

});

$('#jquery-json-btn').on('click', function () {

$.getJSON('data.json')

.done(function (data) {

$('#output').text(JSON.stringify(data, null, 2));

})

.fail(function () {

$('#output').text('Error loading JSON file.');

})

.always(function () {

showOutput('jquery-json');

});

});

$('#parse-json-btn').on('click', function () {

$.get('data.json')

.done(function (data) {

try {

let jsonData;

if (typeof data === 'string') {

jsonData = JSON.parse(data);

} else {

jsonData = data;

}

$('#output').text(JSON.stringify(jsonData, null, 2));

} catch (e) {

$('#output').text('Error parsing JSON: ' + e.message);

}

})

.fail(function () {

$('#output').text('Error loading JSON file.');

})

.always(function () {

showOutput('parse-json');

});

});

</script>

</body>

</html>