

ASSIGNMENT - 2

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Roll & Div: **TY CS-D 78**

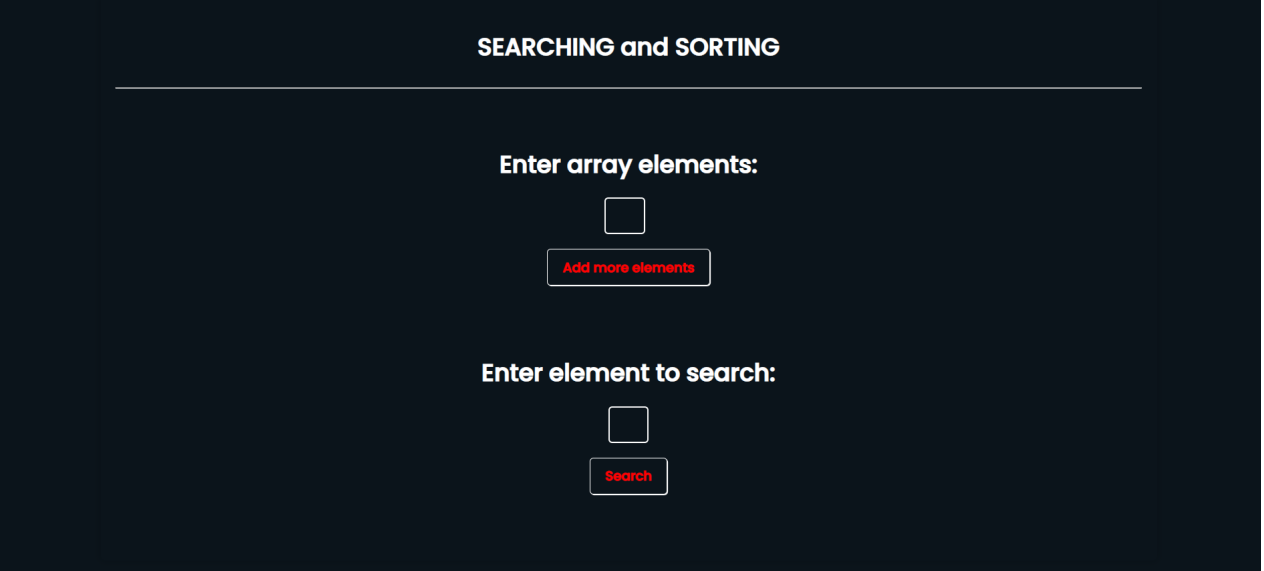
Design and develop a website to demonstrate

(a) searching and sorting array for integer elements using JavaScript

(b) array for named entities using JavaScript.

You can make the use of bootstrap as well as jQuery.

Preview Screenshots



The screenshot shows a dark-themed web interface with the title "SEARCHING and SORTING" at the top. Below the title is a horizontal line. The main content area contains two sections. The first section is labeled "Enter array elements:" and features a text input field with a small square icon to its right, and a button labeled "Add more elements" below it. The second section is labeled "Enter element to search:" and features a text input field with a small square icon to its right, and a button labeled "Search" below it.

CODE

[Index.html](#)

```
<!DOCTYPE html>
<html>
<head>
  <title>Search Array</title>
  <link rel="stylesheet" type="text/css" href="style.css">
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
  <script src="script.js"></script>
</head>
<body>
  <div class="container">
    <h1>SEARCHING and SORTING</h1>
    <hr>
    <br>
    <br>
    <form>
      <label>Enter array elements:</label>
      <div id="array-inputs">
        <?php for ($i = 0; $i < 5; $i++): ?>
          <input type="text" name="array[ ]" required>
        <?php endfor; ?>
      </div>
      <button id="add-input">Add more elements</button>
      <br>
      <br>
      <label>Enter element to search:</label>
      <input type="text" name="search" required>
      <button id="search-btn" type="submit">Search</button>
    </form>
    <div id="result"></div>
    <div id="sorted-array"></div>
    <br><br>
  </div>
</body>
</html>
```

Script.js

```
$(document).ready(function() {  
    $("#add-input").click(function(e) {  
        e.preventDefault();  
        $("#array-inputs").append('<input type="text" name="array[ ]" required>');  
    });  
  
    $("#search-btn").click(function(e) {  
        e.preventDefault();  
        var array = $("input[name='array[ ]']")  
            .map(function(){return $(this).val();}).get();  
        var search = $("input[name='search']").val();  
        var index = $.inArray(search, array);  
  
        if (index == -1) {  
            $("#result").html("Element not found in the array.");  
            $("#sorted-array").html("");  
        } else {  
            $("#result").html("Element found at index " + index + "");  
            var sortedArray = array.slice().sort();  
            var html = '<label>Sorted Array </label><div class="sorted-items">';  
  
            for (var i = 0; i < sortedArray.length; i++) {  
                html += '<div class="sorted-item">' + sortedArray[i] + '</div>';  
            }  
  
            html += '</div>';  
            $("#sorted-array").html(html);  
        }  
    });  
});
```

Style.css

```
@import url('https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500&display=swap');
```

```
body {  
  font-family: 'Poppins', sans-serif;  
  background-color: #0b141b;  
  color: white;  
  margin: 0;  
  padding: 0;  
  
}  
  
.container {  
  width: 80%;  
  margin: 0 auto;  
  padding: 20px;  
  box-shadow: 0 0 10px rgba(0,0,0,0.2);  
  border-radius: 5px;  
}  
  
h1 {  
  text-align: center;  
  margin-bottom: 30px;  
}  
  
form {  
  display: flex;  
  flex-direction: column;  
  align-items: center;  
}  
  
label {  
  margin-bottom: 10px;  
}  
  
input[type="text"], input[type="submit"] {  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid #ccc;  
  margin-bottom: 20px; background-color: transparent;  
  
}  
  
button {
```

```
padding: 10px 20px;
color: #fff;
border: none;
border-radius: 5px;
cursor: pointer;
}
```

```
#array-inputs input[type="text"]{
margin-right: 10px;
background-color: transparent;
}
```

```
#result {
margin-top: 30px;
font-weight: bold;
text-align: center;
font-size: 20px;
}
```

```
#sorted-array {
margin-top: 20px;
text-align: center;
}
```

```
#sorted-array label {
display: inline-block;
margin-bottom: 10px;
}
```

```
#sorted-array .sorted-items {
display: flex;
flex-wrap: wrap;
justify-content: center;
}
```

```
#sorted-array .sorted-item {
padding: 5px 10px;
margin-right: 10px;
margin-bottom: 10px;
color: #fff;
border-radius: 5px;
}
```

```
input[type="text"] {  
  border: 2px solid white;  
  background-color: transparent;  
  color: white;  
  padding: 5px;  
  margin-bottom: 10px;  
  font-family: 'Poppins', sans-serif;  
  width: 40px;  
  height: 35px;  
  font-size: 1.6rem;  
  justify-content: center;  
}
```

```
button {  
  background-color: transparent;  
  color: red;  
  border: 1px solid white;  
  padding: 10px 20px;  
  margin-top: 10px;  
  font-family: 'Poppins', sans-serif;  
  box-shadow: 1px 1px white;  
  font-weight: bolder;  
  font-size: 1.1rem;  
}
```

```
button:hover {  
  cursor: pointer;  
}
```

```
.container {  
  width: 80%;  
  margin: 0 auto;  
  text-align: center;  
}
```

```
h1 {  
  font-weight: bold;  
}
```

```
#result, #sorted-array {  
  margin-top: 20px;  
  text-align: left;  
}
```

```
#result {  
  font-weight: bold;
```

```
}  
label{  
  font-size: 2rem;  
  font-weight: bold;  
  margin: 20px;  
  
}  
.sorted-item{  
  border: 2px solid white;  
  color: white;  
  padding: 5px;  
  margin-bottom: 10px;  
  font-family: 'Poppins', sans-serif;  
  width: 40px;  
  height: 35px;  
  font-size: 1.6rem;  
  justify-content: center;  
}
```

OUTPUT

SEARCHING and SORTING

Enter array elements:

Add more elements

Enter element to search:

Search

SEARCHING and SORTING

Enter array elements:

Add more elements

Enter element to search:

Search

Enter array elements:

50

40

30

10

20

Add more elements

Enter element to search:

10

Search

Element found at index 3

Sorted Array

10

20

30

40

50

B.

SEARCHING and SORTING

Enter array elements:

Tanmay

Prayag

Bhakti

Shubham

Sahil

Add more elements

Enter element to search:

Tanmay

Search

Enter array elements:

Tanmay

Prayag

Bhakti

Shubham

Sahil

Add more elements

Enter element to search:

Tanmay

Search

Element found at index 0

Sorted Array

Bhakti

Prayag

Sahil

Shubham

Tanmay