Web Technologies - Lab5

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PROBLEM STATEMENT

Develop a website using JavaScript program to implement array operations such as reverse the elements of a given array / sorting methods/ searching methods.

CODE

HTML

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

    <head>
        <meta charset="UTF-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width,
initial-scale=1.0">
        <title>Array Reversal</title>

        <!--------------------------- Bootstrap CDN
--------------------------->
        <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.m
in.css" rel="stylesheet"
integrity="sha384-iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYk
iZhlZB6+fzT" crossorigin="anonymous">
        <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bun
dle.min.js"
integrity="sha384-u1OknCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvbZlHgT
POOmMi466C8" crossorigin="anonymous"
            defer></script>
```

```html
            <!--------------------------- End Bootstrap CDN
--------------------------->

    </head>

    <body class="container py-4">
        <form>
            <div class="form-group">
                <label class="form-label">Array Element 0</label>
                <input id="input-0" type="number" class="form-control"
/>
            </div>
        </form>

        <button class="btn btn-block btn-primary rounded-full mt-5"
type="button" id="add-btn">Add Element</button>
        <button class="btn btn-block btn-primary rounded-full mt-5"
type="button" id="reverse-btn">Reverse</button>
        <button class="btn btn-block btn-primary rounded-full mt-5"
type="button"
            onclick="location.reload()">Reset</button>
        <div style="margin-top: 2%; width: 100%; text-align: center;">
            <span>Output : </span>
            <span id="output" style="letter-spacing: 1%;"></span>
        </div>
        <script src="./script.js"></script>
    </body>

</html>
```

JavaScript

```javascript
const input = document.getElementById('input');
const form = document.getElementsByTagName('form')[0]
let i = 1;

function createElementInput(i) {
    let div = document.createElement('div');
    let label = document.createElement('label');
    let input = document.createElement('input');

    div.className = "form-group";

    label.className = "form-label";
```

```javascript
        label.id = `label-${i}`;
        label.innerHTML = `Array Element ${i}`;

        input.className = "form-control";
        input.id = `input-${i}`;

        div.appendChild(label);
        div.appendChild(input);

        return div;
}

function reverse(arr) {
        let op = [];
        for (let i = arr.length - 1; i >= 0; i--) {
            op.push(arr[i]);
        }
        return op;
}

document.getElementById('add-btn').addEventListener('click', () => {

        form.appendChild(createElementInput(i));
        i++;

})

document.getElementById('reverse-btn').addEventListener('click', () =>
{
        let arr = [];

        for (let index = 0; index < i; index++) {

arr.push(parseInt(document.getElementById(`input-${index}`).value))
        }

        arr = reverse(arr);

        document.getElementById('output').innerHTML = arr;
})
```

OUTPUT

Array Element 0

12

Array Element 1

34

Array Element 2

56

Array Element 3

77

Add Element | Reverse | Reset

Output : 77,56,34,12