Name: Patel Shivamkumar S.
Enroll No: 21162101019
Branch: CBA Batch: 41. Sem : 4
Subject: FET

Practical - 6 (Arrays)

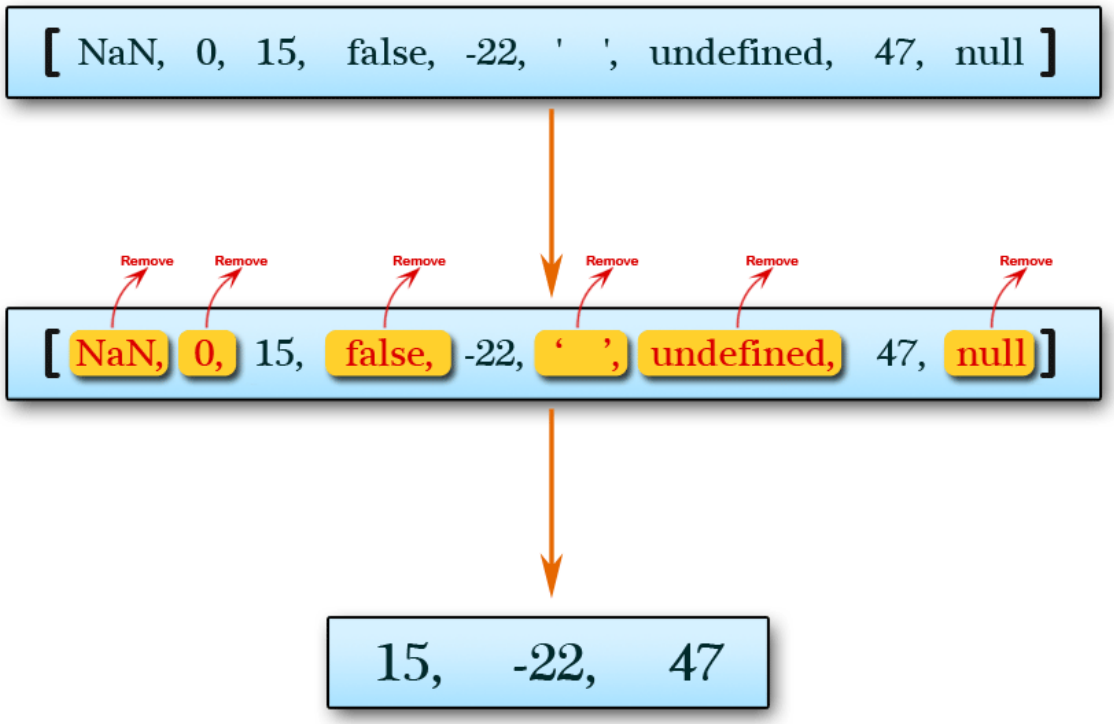
Objective: To understand the usage of arrays in JavaScript.

Exercise:
You are a data scientist. While analyzing the data in an array, you found a lot of bad entries in it. Now you want to clean the data by removing 'null', '0', '""', 'false', 'undefined' and 'NaN' values from the array. Your task is to:

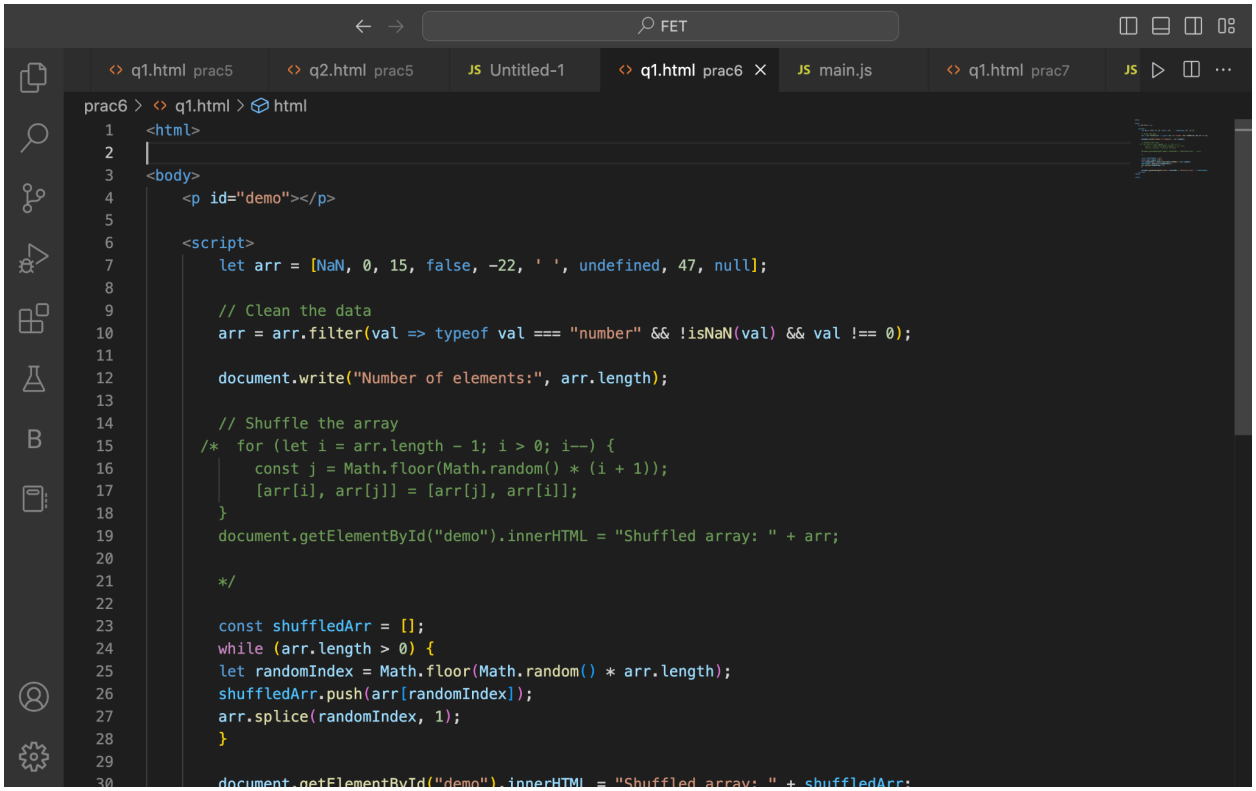
1. Clean the data and keep only numeric values for further analysis.
2. Print the number of elements finally available.
3. Shuffle the array and display

Write the code snippet in JavaScript.

Example to clean the data:

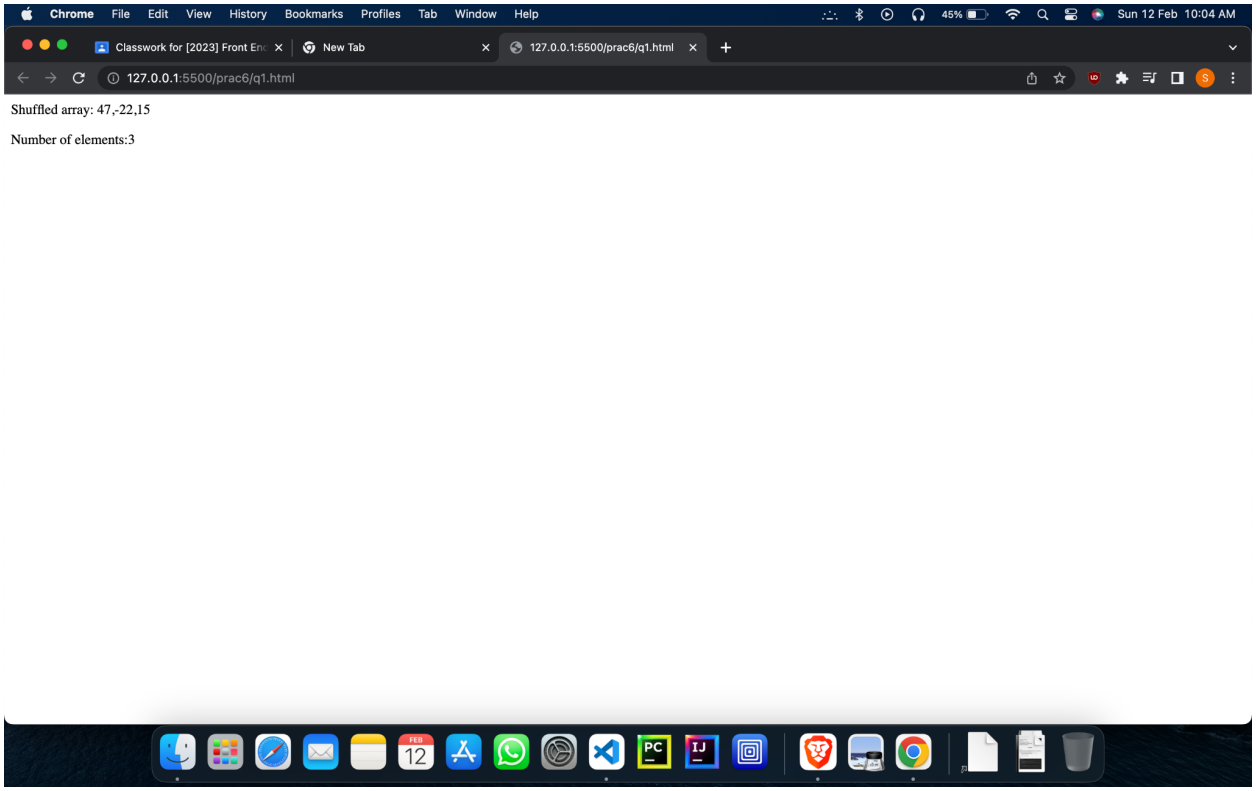


CODE:



```
<html>

<body>
    <p id="demo"></p>

    <script>
        let arr = [NaN, 0, 15, false, -22, ' ', undefined, 47, null];

        // Clean the data
        arr = arr.filter(val => typeof val === "number" && !isNaN(val) && val !== 0);

        document.write("Number of elements:", arr.length);

        // Shuffle the array
      /*  for (let i = arr.length - 1; i > 0; i--) {
            const j = Math.floor(Math.random() * (i + 1));
            [arr[i], arr[j]] = [arr[j], arr[i]];
        }
        document.getElementById("demo").innerHTML = "Shuffled array: " + arr;

        */

        const shuffledArr = [];
        while (arr.length > 0) {
        let randomIndex = Math.floor(Math.random() * arr.length);
        shuffledArr.push(arr[randomIndex]);
        arr.splice(randomIndex, 1);
        }

        document.getElementById("demo").innerHTML = "Shuffled array: " + shuffledArr;
```

OUTPUT:



Shuffled array: 47,-22,15

Number of elements:3

GITHUB LINK:

https://github.com/Shivam3783/FET-PRACTICALS/tree/main/PRAC6