# **JAVA SCRIPT**

6):Question: Find the index of the first occurrence of a specific element in an array.

## **SOURCE CODE:**

#### **OUTPUT:**

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

C:\Program Files\nodejs\node.exe .\affan.js

index of element to find 3
```

7): Question: Remove all duplicates from an array without built-in methods.

# **SOURCE CODE:**

#### **OUTPUT:**

```
C:\Program Files\nodejs\node.exe .\affan.js
> remove duplicate (7) [1, 2, 3, 4, 5, 6, 7]
```

8): Question: Sort the array in ascending and descending without built-in methods.

#### **SOURCE CODE:**

```
JS affan.js
       function SortAscending(array) {
          let n = array.length;
for (let i = 0; i < n - 1; i++) {
    for (let j = 0; j < n - i - 1; j++) {
        if (array[j] > array[j + 1]) {
                          let temp = array[j];
array[j] = array[j + 1];
array[j + 1] = temp;
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
            return array;
       function SortDescending(array) {
           let n = array.length;
for (let i = 0; i < n - 1; i++) {
    for (let j = 0; j < n - i - 1; j++) {
        if (array[j] < array[j + 1]) {</pre>
                          let temp = array[j];
array[j] = array[j + 1];
                     array[j + 1] = temp;
1† (array[j] < array[j + 1]) {
                           // Swap elements
                          let temp = array[j];
                           array[j] = array[j + 1];
                           array[j + 1] = temp;
         return array;
  let unsortedArray = [5, 2, 8, 1, 4];
  let ascendingArray = SortAscending([unsortedArray]);
  let descendingArray = SortDescending([unsortedArray]);
  console.log("Original Array:", unsortedArray);
  console.log("Ascending Order:", ascendingArray);
  console.log("Descending Order:", descendingArray);s
```

#### **OUTPUT:**

```
PS C:\Users\iakbe\OneDrive\Desktop\affan> node affan.js
Original Array: [ 5, 2, 8, 1, 4 ]
Ascending Order: [ [ 5, 2, 8, 1, 4 ] ]
Descending Order: [ [ 5, 2, 8, 1, 4 ] ]
PS C:\Users\iakbe\OneDrive\Desktop\affan> [
```

9):Question: Print all even numbers between 1 and 20 using a while loop.

#### **SOURCE CODE:**

# **OUTPUT:**

```
PROBLEMS (1) OUTPUT DEBUG CONSOLE TERMINAL PORTS

C:\Program Files\node;s\node.exe .\affan.js

2

4

6

8

10

12

14

16

18
```

10): Question: Calculate the factorial of a number using a do-while loop.

## **SOURCE CODE:**

```
affan.html
               tk.html
                               JS affan.js
JS affan.js > ...
 1 number=5;
     function calculatefactorial(number){
          if(number<0){
              return "factorial is not define for negative number";
          let result=1;
          let i=1;
          do{
              result=result*i;
              i++;
          while(i<=number);</pre>
          return result;
     const factorial=calculatefactorial(number);
      console.log("factorial of the given number is",factorial);
```

#### **OUTPUT:**

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

C:\Program Files\node;s\node.exe .\affan.js
factorial of the given number is 120
```