

TW-04 GROUP VERSION



CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

- ▶ Icebreaking
- ▶ Workshop Activities - Tuesday
- ▶ Teamwork Activities - Friday
 - ▶ Questions
 - ▶ Interview Questions
- ▶ Video of the week
- ▶ Retro meeting
- ▶ Case study / project

Teamwork Schedule

Ice-breaking

10m

- Personal Questions (Study Environment, Kids etc.)
- Any challenges (Classes, Coding, studying, etc.)
- Ask how they're studying, give personal advice.
- Remind that practice makes perfect.

Workshop Activities (Tuesday)

90m

1. Anagram Check

Anagrams are words or phrases formed by rearranging the letters of another, such as **listen** and **silent** or **triangle** and **integral**.

Write a JavaScript function called `areAnagrams` that takes two strings as input and returns `true` if the two strings are anagrams of each other, and `false` otherwise.

- Your function should be case-insensitive and ignore spaces and punctuation.
- It should return `true` if the input strings have the same set of characters (ignoring order), and `false` otherwise.

Some anagram examples:

```
console.log(areAnagrams("listen", "silent")); // Should print true
console.log(areAnagrams("triangle", "integral")); // Should print true
console.log(areAnagrams("debit card", "bad credit")); // Should print true
console.log(areAnagrams("Dormitory", "dirty room")); // Should print true
console.log(areAnagrams("The Morse Code", "Here come dots")); // Should print true
console.log(areAnagrams("Astronomer", "Moon starrer")); // Should print true

console.log(areAnagrams("hello", "world")); // Should print false
console.log(areAnagrams("apple", "banana")); // Should print false
console.log(areAnagrams("hello", "holla")); // Should print false
console.log(areAnagrams("race", "racing")); // Should print false
```

2. Write a js code that will unique the elements of the array containing repetitive elements.

```
const arrayWithDuplicates = [1, 2, 2, 3, 4, 4, 5];
const uniqueArray = removeDuplicates(arrayWithDuplicates);
// uniqueArray will be [1, 2, 3, 4, 5]
```

3. Write a js code that find the intersection of two JavaScript arrays (common elements in both arrays)

```
const array1 = [1, 2, 3, 4, 5];
const array2 = [3, 4, 5, 6, 7];

const result = findIntersection(array1, array2);
console.log(result); // [3, 4, 5]
```

Team Work Activities (Friday)

Ask Questions

20m

1. After the following code, what is the value of a.length?

```
var a = ['dog', 'lion', 'hen'];
a[100] = 'horse';
```

- A. 101
- B. 3
- C. 4
- D. 100

2. What will be the output of this code?

```
let array = [1, 2, 3];
array[6] = 9;
console.log(array[5]);
```

- A. 1
- B. 2
- C. undefined
- D. 5

3. Which definition below best describe an array?

- A. An array is a function identifier that can hold more than one parameter.
- B. An array is a beam of light.
- C. An array is a special variable, which can hold more than one value at a time.
- D. An array is a special function, which can hold more than one value at a time.

4. Which method is used to add one or more elements to the end of an array?

- A. unshift()
- B. append()
- C. addToEnd()
- D. push()

5. What is the purpose of the pop() method in JavaScript?

- A. It removes the first element of an array.
- B. It removes the last element of an array.
- C. It adds an element to the beginning of an array.
- D. It reverses the order of elements in an array.

6. Which method is used to remove elements from the beginning of an array?

- A. shift()
- B. pop()
- C. splice()
- D. remove()

7. Which method is used to combine two or more arrays in JavaScript?

- A. combine()
- B. merge()
- C. join()
- D. concat()

8. Which method is used to remove elements from an array without creating gaps in the array?

- A. splice()
- B. slice()
- C. filter()
- D. remove()

9. What does the reverse() method do in JavaScript?

- A. Sorts the array in ascending order
- B. Sorts the array in descending order
- C. Reverses the order of elements in the array
- D. Removes all elements from the array

10. Which method is used to create a shallow copy of an array in JavaScript?

- A. copy()
- B. slice()
- C. clone()
- D. duplicate()

11. Which method is used to sort the elements of an array in place, without creating a new array?

- A. arrange()
- B. order()
- C. sorted()
- D. sort()

12. Write a js code that can reach the result with splice command

```
let myArray = [1, 2, 3, 4, 5];  
  
//Write your Code here  
  
console.log(myArray); // [1, 2, 6, 4, 5]
```

13. Which array iteration method is used to execute a provided function for each array element and has no return value?

- A. forEach()
- B. map()
- C. filter()
- D. reduce()

14. Write js code that transfers the even numbers in the array to a new array using the filter() method

```
const numbers = [0, 1, 2, 3, 4, 5];  
//Write your Code here  
console.log(evenNumbers) // [0, 2, 4]
```

15. Write js code computes the sum of all numbers in the array using reduce() method.

```
const numbers = [1, 2, 3, 4, 5];  
//Write your Code here  
console.log(sum) //15
```

16. How can you create a responsive grid layout in CSS Grid?

- A. By setting fixed row and column sizes in pixels.
- B. By defining a static number of rows and columns.
- C. By using media queries to adjust grid properties at different screen sizes.
- D. By setting a fixed grid container width.

17. What does CSS Grid Layout provide for web developers?

- A. A way to create only one-dimensional layouts
- B. A method to style text and fonts
- C. An animation framework
- D. A powerful two-dimensional layout system

18. What CSS property sets the space between grid rows and columns in CSS Grid?

- A. grid-cell-gap
- B. grid-spacing
- C. grid-rows-columns-gap
- D. grid-gap

19. In CSS Grid, which property can be used to control the placement of a grid item within the grid container?

- A. grid-item-placement
- B. grid-area
- C. grid-cell
- D. grid-position

20. Which property is used to define the number and size of grid columns in CSS Grid?

- A. grid-template-columns
- B. grid-gap
- C. grid-column
- D. grid-row

Interview Questions

20m

1. Explain `reduce()` method in Javascript
 2. What is the difference between slice and splice?
 3. What is the difference between `.map()` and `.forEach()`?
-
-



Coffee Break

10m



Video of the Week

15m

- `forEach()` method

Case study/Project

15m

The case study will be solved by the students during the week and by the team on Friday Team Work.

- CSS Grid
- iOS Calculator

Retro Meeting on a personal and team level

10m

Ask the questions below:

- What went well?
- What could be improved?
- What will we commit to do better in the next week?

Closing

5m

- Next week's plan
 - QA Session
-