

# TW-03 GROUP VERSION

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CLARUSWAY  
WAY TO REINVENT YOURSELF

## Meeting Agenda

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

# Teamwork Schedule

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## Ice-breaking

90m

- 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)

10m

### 1- Reverse Words in a String Without Arrays

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- Write a JavaScript function called `reverseWordsWithoutArray` that takes a sentence as input and returns the sentence with its words reversed, **without using arrays**.

This JavaScript code challenge involves reversing the words in a given sentence without using arrays. It's a practical exercise that combines string manipulation, loops, and functions.

#### Expected Output

For example, if the input is `Hello Js World 2023`, the function should return `2023 World Js Hello`.

```
// Test the function
const inputSentence = "Hello World";
const reversedSentence = reverseWordsWithoutArray(inputSentence);
console.log(reversedSentence); // Output: "World Hello"
```

### 2 - Write a JavaScript program that computes and prints the first n Fibonacci numbers without using any built-in functions (like `Math.pow`, `Math.sqrt`, Array methods, etc.) or arrays.

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#### Rules :

- You must not use any built-in JavaScript functions related to Fibonacci sequences or arrays.
- The program should prompt the user for the value of n.
- Display the first n Fibonacci numbers.

Example: For n = 7, the Fibonacci sequence would be: 0, 1, 1, 2, 3, 5, 8

## Team Work Activities (Friday)

### Ask Questions

20m

#### 1. What are functions?

- A. It's code that you can use in Javascript
- B. It's where you can put if and else statements
- C. It's a block of code that lets you do a bunch of tasks
- D. It's a block of code that let's you do one specific task

#### 2. What is a global variable scope

- A. The variable can be accessed anywhere inside and outside a function
- B. The variable can be accessed only inside the function
- C. The variable can be accessed only outside the function
- D. All of above

#### 3. What will the console output?

```
let myCar = 'My car is yellow';

function aName(){
  let myCar = 'My car is red';
}

console.log(myCar);
```

- A. Console will return "My car is red"
- B. Console will return "My car is undefined"
- C. Console will return "My car is yellow"
- D. Console will return "undefined variable"

#### 4. Write a function that gives whether the given number is odd or even

```
function evenNumber (num){
  // Write your code here

}

evenNumber(3) // output : 3 is odd
evenNumber(2) // output : 2 is even
```

## 5. Write a function that squares the given number

```
function square (num){  
  // Write your code here  
}  
square(4) // output : 16  
square(5) // output : 25
```

## 6. What is the difference between an argument and a parameter?

- A. The argument is set when you create the function. The parameter is what you enter when you call the function
- B. The parameter is set when you create the function. The argument is what you enter when you call the function
- C. The argument is set when you create the variable. The parameter is what you enter when you call the function
- D. The parameter is set when you create the variable. The argument is what you enter when you call the function

## 7. What is the difference between function declaration and function expression?

- A. There is no difference
- B. Function declaration is hoisted, while function expression is not
- C. Function expression is hoisted, while function declaration is not
- D. Function declaration uses the var keyword, while function expression uses let

## 8. How can you pass multiple parameters to a function in JavaScript?

- A. Multiple parameters are not allowed
- B. Use curly braces
- C. Use square brackets
- D. Separate parameters with commas

## 9. What is the purpose of the return statement in a function?

- A. To declare a variable
- B. To output a value from the function
- C. To comment on the code
- D. To run the function

## 10. How do you define a default parameter in a function?

- A. By using the keyword default
- B. JavaScript does not support default parameters
- C. By assigning a value in the function declaration
- D. By using the undefined keyword

**11. Which of the following is most suitable for a grid layout?**

- A. toolbar
- B. menu
- C. complex layout, like a newspaper
- D. form

**12. Which model defines structures similar to tables using 2 dimensions?**

- A. CSS Box model
- B. CSS3 Grid Layout model
- C. CSS3 Flexbox Box model
- D. CSS float

**13. You are creating a grid layout. What does 1fr mean in the following code?**

```
grid-template-columns: 150px 150px 1fr 1fr;
```

- A. The first two columns will be two fraction units of the stated width.
- B. The third and fourth columns is 1 fraction unit of the remaining space in the grid.
- C. The second column will be double the stated width.
- D. The second column will be half of the remaining space in the grid.

**14. How many columns and rows are defined in the following code?**

```
section {  
  display: grid;  
  
  grid-template-columns: 100px 1fr 1fr 250px;  
  
  grid-rows: 50px 1fr 1fr;  
}  
  
section header {  
  grid-column: 1 / 4;  
  
  grid-row: 1;  
}  
  
section nav {  
  grid-column: 1;
```

```
    grid-row: 2 / 3;
  }

  section article {
    grid-column: 2;

    grid-row: 2;
  }

  section aside {
    grid-column: 3;

    grid-row: 2;
  }

  section footer {
    grid-column: 1 / 4;

    grid-row: 3;
  }
```

- A. 1 rows and 2 columns
- B. 2 rows and 3 columns
- C. 3 rows and 2 columns
- D. 3 rows and 4 columns

**15. flex-wrap allows you to do what?**

- A. Define how elements will wrap when the browser width is changed
- B. Define the direction of how elements are positioned based on either row or column
- C. Define how to position elements vertically
- D. Defines how position elements horizontally

**16. To use flexbox we define a container as a flexbox. What is the CSS to do this?**

- A. position:absolute;
- B. float:left;
- C. display:block;
- D. display:flex;

**17. What do media queries allow us to do?**

- A. Stream video on our site.
- B. Use different CSS based on screen size.
- C. Do responsive design.
- D. Changes all document sizes and feature.

**18. What are the different types of media properties in CSS?**

- A. Print
- B. Screen
- C. Speech
- D. All of above

**19. \_\_\_\_\_ sets the style rule to different media types.**

- A. @extend
- B. @import
- C. @debug
- D. @media

**20. Which of the following directive is used to share rules and relationships between selectors?**

- A. @extend
- D. @media
- C. @at-root
- D. None of the above

**Coffee Break****10m****Interview Questions****20m****1. What are CSS variables and how are they used?****2. What are media queries in CSS and how are they used?****3. What is a CSS Grid?****4. What are the differences between Flexbox & CSS Grid?**

## Video of the Week

15m

- [What is JavaScript Hoisting](#)

## Coding Challenge

15m

- Make a media query web page as in [this example](#)

## 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
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