

# TW-05 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

- CSS Animation

## Team Work Activities (Friday)

### Ask Questions

20m

#### 1. What is an object in JavaScript?

- A. A function
- B. A data tool
- C. A data structure
- D. An array

#### 2. How do you access a property of an object in JavaScript?

- A. By using curly braces {}
- B. By using the dot notation
- C. By using parentheses ()
- D. By using commas

#### 3. How do you check if a property exists in an object in JavaScript?

- A. By using the exist keyword
- B. By using the contains keyword
- C. By using the hasOwnProperty method
- D. By using the isProperty method

**4. How do you delete a property from an object in JavaScript**

- A. By using the `delete` keyword
- B. By using the `remove` keyword
- C. By setting the property value to null
- D. By assigning an empty string to the property

**5. How do you add a new property to an existing object in JavaScript**

- A. By using the `add` keyword
- B. By using the `insert` keyword
- C. By using the `update` keyword
- D. By assigning a value to a new key

**6. How can you create an empty object in JavaScript?**

- A. `emptyObject = {};`
- B. `emptyObject = new Empty();`
- C. `emptyObject = Object.empty();`
- D. `emptyObject = new Object();`

**7. How do you clone an object in JavaScript?**

- A. Use the `Object.clone()` method
- B. Use the `Object.assign()` method or the spread operator (`...`)
- C. Use the `Object.copy()` method
- D. Use the `Object.duplicate()` method

**8. What is object destructuring in JavaScript?**

- A. A way to create objects from strings
- B. A way to concatenate objects
- C. A way to merge objects
- D. A way to extract properties from an object and assign them to variables

**9. How do you swap the values of two variables without using a temporary variable using array destructuring?**

- A. `const a = b; const b = a`
- B. `const [a, b] = [a, b];`
- C. `const [a, b] = [b, a];`
- D. `const [b, a] = [a, b];`

**10. What happens if you try to destructure an array with more variables than there are elements in the array?**

- A. Extra variables are assigned undefined
- B. An error is thrown
- C. The array is automatically resized
- D. Only the first few variables are assigned values

**11. What does the rest element (...) do in array destructuring?**

- A. It spreads elements into multiple arrays
- B. It gathers remaining elements into an array
- C. It removes elements from the array
- D. It reverses the order of elements in the array

**12. What is JSON (JavaScript Object Notation)?**

- A. A lightweight data interchange format
- B. A JavaScript method for creating objects
- C. A way to define variables in JavaScript
- D. A JavaScript library for animations

**13. What is Bootstrap?**

- A. A programming language
- B. A front-end framework
- C. A database management system
- D. An operating system

**14. Which class indicates red colored border in bootstrap?**

- A. border warning
- B. border border-danger
- C. border border-warning
- D. border-danger

**15. Which class indicates lowercased text in bootstrap?**

- A. lowercase
- B. text-lowercased
- C. text-lowercase
- D. txt-lowercased

**16. Which class adds zebra-stripes to a table?**

- A. .table-zebra
- B. .table-bordered
- C. .table-striped
- D. .even and .odd

**17. What is the Bootstrap class used to create a responsive navigation bar?**

- A. .navbar-fixed
- B. .nav-collapse
- C. .nav-responsive
- D. .navbar

**18. How can you include Bootstrap in your HTML file?**

- A. Download and link local Bootstrap files
- B. Use a CDN (Content Delivery Network) link
- C. No need to any action you can write BS Code directly in your project
- D. Python should be installed on your system

**19. What is the primary function of the Bootstrap modal component?**

- A. To create form elements
- B. To display a message box
- C. To define navigation links
- D. To handle user authentication

**20. The ..... class shapes the image to a circle.**

- A. .img-thumbnail
- B. .img-responsive
- C. .img-circle
- D. .img-rounded

**Coffee Break****10m**

## Interview Questions

20m

1. In Bootstrap, how do you make navigation elements?
2. How can one create an alert in Bootstrap?
3. What is an object in JavaScript?
4. Explain the difference between dot notation and bracket notation when accessing object properties.
5. What is the difference between `Object.keys()`, `Object.values()`, and `Object.entries()`?

## Video of the Week

15m

- [Object Destructuring in Javascript](#)

## Coding Challenge

15m

### 1. High Priced Product Categories

- You are given an array of objects representing a collection of products, each with a name, price, and category. Your task is to use map, filter, and reduce to calculate the average price of products in each category, and then return an array of objects containing only the categories that have an average price above 50.
- Sample input :

```
const products = [  
  { name: "Product 1", price: 20, category: "Electronics" },  
  { name: "Product 2", price: 30, category: "Clothes" },  
  { name: "Product 3", price: 40, category: "Electronics" },  
  { name: "Product 4", price: 50, category: "Clothes" },  
  { name: "Product 5", price: 60, category: "Clothes" },  
  { name: "Product 6", price: 70, category: "Electronics" },  
  { name: "Product 7", price: 80, category: "Clothes" },  
  { name: "Product 8", price: 90, category: "Electronics" },  
];
```

- Expected outcome :

```
[
  { category: 'Clothes', average: 55 },
  { category: 'Electronics', average: 55 }
]
```

## 2. HR VS IT Department

- **Task :** You are given an array of objects representing a collection of employees, each with a name, salary, and department. Your task is to use map, filter, and reduce to calculate the average salary for each department and then return an array of objects containing only the departments that have an average salary above 65000.
- Sample input :

```
const employees = [
  { name: "John", salary: 50000, department: "IT" },
  { name: "Jane", salary: 60000, department: "HR" },
  { name: "Bob", salary: 55000, department: "IT" },
  { name: "Sophie", salary: 75000, department: "HR" },
  { name: "Mike", salary: 65000, department: "IT" },
  { name: "Emily", salary: 80000, department: "HR" },
  { name: "David", salary: 70000, department: "IT" },
];
```

- Expected outcome :

```
[
  { department: 'HR', average: 71666 }
]
```

## 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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