

# TW-020 GROUP VERSION

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CLARUSWAY  
WAY TO REINVENT YOURSELF

## Meeting Agenda

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- ▶ Icebreaking
- ▶ Questions
- ▶ Interview Questions
- ▶ Coffee Break
- ▶ Coding Challenge
- ▶ Video of the week
- ▶ Retro meeting
- ▶ Case study / project

# Teamwork Schedule

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## Ice-breaking

5m

- 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.

## Team work

5m

- Ask what exactly each student does for the team, if they know each other, if they care for each other, if they follow and talk with each other etc.

## Ask Questions

15m

### 1. What is true about the difference between TypeScript and JavaScript?

- A. TypeScript does not need compilation, while JavaScript takes more time as the code needs to be compiled
- B. TypeScript does not support modules, JavaScript does
- C. TypeScript is not an Object-Oriented Language.
- D. TypeScript comes with optional static typing and a type inference system, JavaScript is a dynamically typed language

### 2. TypeScript is developed and maintained by \_\_\_\_\_ and its first version was first introduced on \_\_\_\_\_.

- A. Amazon.com, 2008
- B. Microsoft Corporation, 2009
- C. Microsoft Corporation, 2012
- D. Facebook, 2013

### 3. Which command will you use to transpile your TypeScript code to JavaScript?

- A. npm
- B. tsc
- C. compile
- D. transpile

**4. TypeScript can be run or understood in any browser.**

- ☐ - True
- ☐ - False

**5. Which access modifiers are supported in TypeScript?**

- A. Public
- B. Private
- C. Protected
- D. All of above.

**6. Which error does this typescript code produce?**

```
let a = 5;  
a = 'hello'
```

- A. No error occurs, this is a valid code.
- B. Type 'number' is not assignable to type 'string'.
- C. Type 'string' is not assignable to type 'number'.
- D. Variable 'a' is used before being assigned.

**7. .... type combines multiple types into one & A union type is a type formed from two or more other types, representing values that may be any one of those types.**

- A. Union
- B. Intersection
- C. Interface
- D. TS

**8. How can we declare an Enum type?**

- A. enum LOG\_LEVEL { ERROR = 1, WARN = 2 }
- B. enum LOG\_LEVEL { 1 = ERROR, 2 = WARN }
- C. enum LOG\_LEVEL = { ERROR = 1, WARN = 2 }
- D. enum LOG\_LEVEL = { 1 = ERROR, 2 = WARN }

**9. Which is a successful example of this tuple '[number, string]'?**

- A. const myTuple = [101]
- B. const myTuple = [101, 'Code Master']
- C. const myTuple = [101, 101, 'Code Master', 'Code Master']
- D. const myTuple = ['Code Master', 101]

**10. Type Aliases are mostly used with \_\_\_\_.**

- A. Booleans
- B. Numbers
- C. String
- D. None of the above

**11. What does the "tsconfig.json" file in a TypeScript project do?**

- A. It specifies the TypeScript version used in the project.
- B. It defines the project's unit tests.
- C. It provides information about the project's database connection.
- D. It configures the project's build settings and compiler options.

**12. In TypeScript, what is the purpose of the "interface" keyword?**

- A. To define a class constructor
- B. To create a new data type
- C. To include external libraries
- D. To specify the structure of an object

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**14. What does the TypeScript "private" access modifier indicate when applied to a class member?**

- A. It restricts access to the member to the same class only.
- B. It makes the member accessible from any class.
- C. It makes the member accessible from any class within the same module.
- D. It allows the member to be accessed only by subclasses.

**15. In TypeScript, which of the following is used to define an optional property in an interface?**

- A. !
- B. :
- C. ?
- D. #

## Interview Questions

**15m**

1. What is Typescript?
2. What are the advantages of using Typescript?
3. What are the disadvantages of TypeScript?
4. How to compile a Typescript file?
5. What is interface?
6. What is default visibility for properties/methods in TypeScript classes?

## Coding Challenge

**15m**

- [TR ID Verification with TypeScript](#)



## Coffee Break

**10m**

## Video of the Week

**10m**

- [How to Install and Compile Typescript with Visual Studio Code](#)

## Case study/Project

**15m**

- The project will be announced during the week.

## 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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