



# Introduction to TypeScript

**Course:** Introduction to  
TypeScript

**Lecture on:** Hands-on coding  
session

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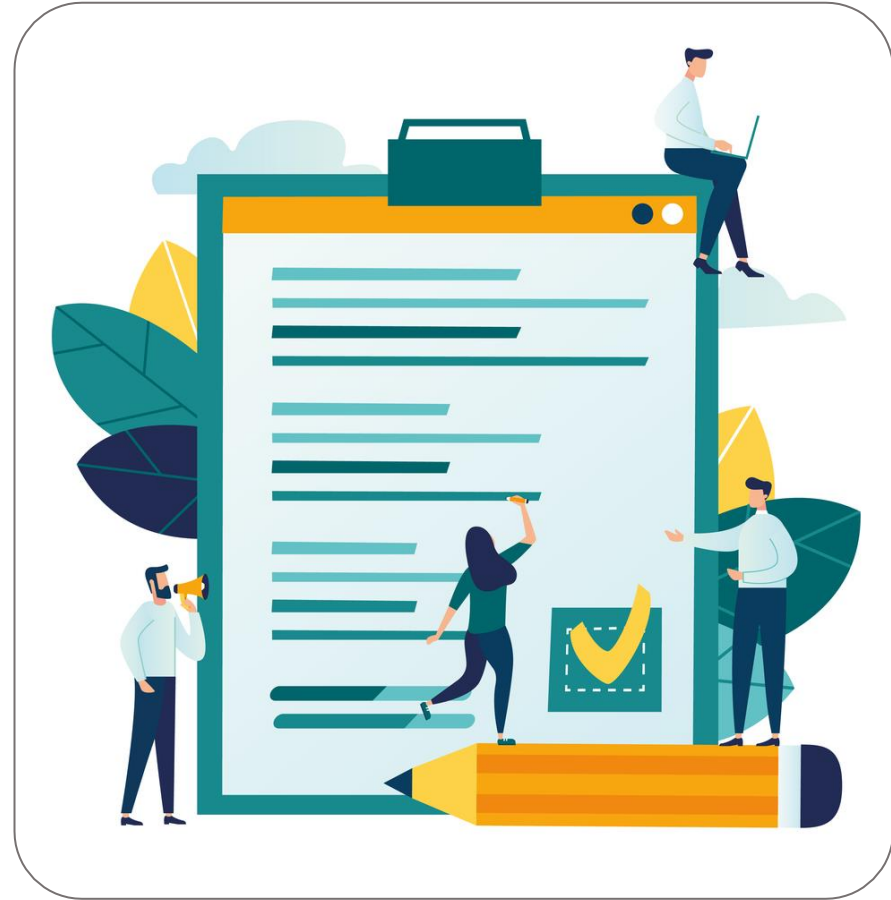
# COURSE ROADMAP

- Introduction to TypeScript (TS)
- Operators, conditions and loops in TS
- Functions in TS
- **Hands-on coding session - I**
- Classes and interfaces in TS
- Type manipulation in TS
- Modules in TS
- Hands-on coding session - II



# TODAY'S AGENDA

- Hands-on coding session



# PROBLEM SOLVING IN TS

- Write a program to display n terms of odd natural number and their sum. Various types of type annotations are being used to specify type of variables

GitHub [link](#) to the solution

# PROBLEM SOLVING IN TS

- Write a program to find the sum of the series  $1 + 11 + 111 + 1111 + \dots$  n terms.

GitHub [link](#) to the solution

# PROBLEM SOLVING IN TS

- Write a function to uncamelize a string.

GitHub [link](#) to the solution

# PROBLEM SOLVING IN TS

- Write a function to count the occurrence of a substring in a string.

GitHub [link](#) to the solution



# PROBLEM SOLVING IN TS

- Write a program to sort the characters in a string alphabetically.

GitHub [link](#) to the solution

# PROBLEM SOLVING IN TS

- Write a program to find duplicate values in a JavaScript array.  
GitHub [link](#) to the solution

# PROBLEM SOLVING IN TS

- Write a program to check whether the given 3-digit number is an Armstrong number or not.  
GitHub [link](#) to the solution

# PROBLEM SOLVING IN TS

- Write a program that accept a number as input and insert dashes (-) between each two even numbers. For example, if you accept 025468, the output should be 0-254-6-8.

GitHub [link](#) to the solution

# PROBLEM SOLVING IN TS

- Write a function to merge two arrays and removes all duplicate elements.

GitHub [link](#) to the solution

# TASKS TO COMPLETE AFTER THE SESSION

Coding Questions



Thank you!