Typescript - Introduction

- Aditya Kumar
  Chief Technology Officer, edwisor.com

We will cover with the following concepts

1) What is Typescript?

2) Why Typescript was created?

3) Static vs Dynamic typing

Typescript was created to make JS scalable

https://www.typescriptlang.org/

Typescript Filled some gaps of JS which are required for big scale development

1) **Compiles** to JS which is compatible with all browsers and platforms.

2) It adds the power of **Strongly typed languages** in JS

3) **Syntax is easy** and highly javascript-y

4) Development tools which come in handy when project size is large -
   a) Static checking /Type checking
   b) Code refactoring
   c) Bug fixing

5) Compatible with ES6 features.

Statically typed vs Dynamically typed is long running debate

Static typed

- Better code compilation

- Better performance (relative)

- Hint and Linting is better

- Static type help manage data type validation easy

- Chances of error are reduced

- Popular examples - C#, Java, C++ and typescript

Dynamically typed

- No compilation required, so a lot of time is saved.

- Easy to learn and manage

- Since there are no types, chances of syntax errors are reduced. Most focus is on logical errors

- Popular example - python, JS etc

Typescript is a prerequisite for Angular

https://angular.io/docs

We will cover only the important concepts

1) We will learn only the most commonly used concept which are important from Angular perspective

2) We will cover advance concepts when necessary in form of a short topic introduction or the real world use.

The next steps are ...

Hello World program