TypeScript Basics

○ TypeScript is a superset of JavaScript with additional features, among which optional types is the most notable. This means that any valid JavaScript code (ES 2015/2016...) is valid TypeScript code. You can basically change the extension of the file to `.ts` and compile it with the the TypeScript compiler.

○ TypeScript defines 7 primary types:

- ○ boolean: `var isDone: boolean = false;`

- ○ number: `var height: number = 6;`

- ○ string: `var name: string = "bob";`

- ○ array: `var list:number[] = [1, 2, 3];` also `var list:Array<number> = [1, 2, 3];`

- ○ enum: `enum Color {Red, Green, Blue};`

- ○ any: `var notSure: any = 4;`

- ○ void: `function hello(): void { console.log('hello'); }`