

Typescript test 2

Answers

1) Install TypeScript globally (npm command)

`npm install -g typescript`

2) Type alias for "string or number":

`type StringOrNumber = string | number;`

3)Interface vs type (declaration merging):

Interfaces can declaration-merge (same name can merge). Types cannot.

4)noImplicitAny: true in tsconfig.json does what?

It throws an error when TypeScript would otherwise infer an implicit any type.

5)Mark an object property as read-only:

Use `readonly`

`readonly id: number;`

6)Purpose of never type + where used:

never means it never returns / can't happen. Used for functions that throw errors or run forever.

Example: `function fail(): never { throw new Error("x"); }`

7)How optional chaining ?. works + why safer:

It stops and returns undefined if the left side is null/undefined, instead of crashing.

Example: `user?.profile?.name`

8)Why unknown is safer than any:

With unknown, you must check/narrow the type before using it. With any, TypeScript skips type checking.

9)What are Generics + why useful:

Generics let you write reusable, type-safe code by using a type variable like T.

Example: `function wrap<T>(value: T): T { return value; }`

10)Use keyof to get property names as a union:

`type Keys = keyof MyInterface;`