

1.
What is the specific **npm command** used to install the TypeScript compiler globally on your machine?
- 2.
3.
How do you define a **Type Alias** for a value that is permitted to be either a `string` or a `number`?
- 4.
5.
What is the primary difference between an `interface` and a `type` regarding "**declaration merging**"?
- 6.
7.
In the `tsconfig.json` file, what specific behavior is enforced when the `noImplicitAny` flag is enabled?
- 8.
9.
How do you mark an object property as **read-only** to prevent its value from being changed after initialization?
- 10.
11.
What is the purpose of the `never` **type**, and in what kind of function would it typically be used as a return type?
- 12.
13.
How does the **optional chaining operator** (`?.`) function, and how does it improve code safety compared to standard dot notation?
- 14.
15.
In terms of type safety, what makes the `unknown` **type** different and safer than the `any` **type**?
- 16.
17.
What are **Generics**, and how do they allow developers to create reusable components while maintaining strict type checking?
- 18.
- 19.

How do you use the `keyof` **operator** to extract the property names of an existing interface as a union of string literals?

20.