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1. Difference between Framework and Library

A library is a collection of prewritten code that you can call to perform specific tasks in your program.
A framework provides the structure and rules for building an entire application, and it calls your code instead.

Example: jQuery is a library, while Angular is a framework.

2. Difference between Compiler and Preprocessor

A preprocessor runs before the compiler and processes the source code — it handles tasks like macros or file inclusion. A compiler translates the preprocessed source code into machine code or bytecode that the computer can execute.

3. Difference between TypeScript and JavaScript

JavaScript is a scripting language that runs directly in the browser.
TypeScript is a superset of JavaScript that adds optional static typing and must be compiled into JavaScript before running.