Assignment -I

1. B) Microsoft

   The typescript developed by Microsoft, It's open source high level programming language and TypeScript used to develop JavaScript applications for both client-side and server-side.

2. C) Node

   TypeScript can technically be used with other backend technologies that support JavaScript, TS is subset of Java script library.

3. C) Java Script

   The primary purpose of the TypeScript compiler tsc is to transpile TypeScript code into plain JavaScript code that can be understood and executed by web browsers and Node.js.

4. C) extends

   The keyword to inherit the class using extends keyword.

5. B) var x = "string";

   This one is incorrect because the syntax is JS.

6. B) var x:number= 999;

   This one is refer the type of x is number store the value 999 this syntax for TypeScript.

7. B) .ts

   TypeScript source code files typically use the .ts file extension.

8. tsc filename.ts

   This command used for run the typescript file using Typescript Compiler.

9. B) tsc filename -w

   -w flag tells the TypeScript compiler to watch the specified file or the entire project if a tsconfig.json is present for changes and automatically recompile when a change is detected.

10. super()

   The super() keyword is used within the constructor of the child class to invoke the constructor of the immediate parent class.