**Day 4 MCQ Assignment**

1. **Microsoft**

Microsoft created and maintains TypeScript as an open-source programming anguage. It can be used to develop JS applications in both client and server side.

2. **Node**

Commonly used with node.js which runs javascript on server side and other backend technologies aswell.

3. **JavaScipt**

Type Script is superset of JavaScript that adds static typing. After compilation TypeScript is converted/compiled to JavaScript.

4. **extends**

Inheritance is implemented using the extends keyword similar to JavaScript Inheritance

5. **var x = "string";**

The variable has no type defined after declaring the variable there should be a colon space type.

This a JavaScript syntax, not a TypeScript syntax

6. **var x: number = 999;**

This is TypeScript syntax,

The variable x of number type is stored the value 999.

7 .**ts**

TypeScript files are typically stored in .ts format, for JavaScript it is .js

8. **tsc filename.ts**

tsc is the command to run TypeScript compiler to compile it to .js file, we can also executa a .ts file using node tsc filename.ts

9. **tsc filename.ts -w**

Make the compiler continuously watch for changes in TypeScript files and recompile automatically when changes are detected.

10. **super()**

use the super() keyword within the child class's constructor.

class Parent {

constructor(public name: string) {

console.log("Parent constructor called");

}

}

class Child extends Parent {

constructor(name: string, public age: number) {

super(name);

console.log("Child constructor called");

}

}

const child = new Child("John", 25);