**Aim:** Write a program to demonstrate single Inheritance and Multiple Inheritance using typescript

**Program:**

class Person {

  name: string;

constructor(name: string) {

    this.name = name;

  }

  display(): void {

    console.log(`Name: ${this.name}`);

  }

}

class Student extends Person {

  rollNumber: number;

  constructor(name: string, rollNumber: number) {

    super(name);

    this.rollNumber = rollNumber;

  }

  displayDetails(): void {

    super.display();

    console.log(`Roll Number: ${this.rollNumber}`);

  }

}

interface CanPlay {

  play(): void;

}

interface CanStudy {

  study(): void;

}

class MultiTalentedStudent implements CanPlay, CanStudy {

  name: string;

  constructor(name: string) {

    this.name = name;

  }

  play(): void {

    console.log(`${this.name} is playing football.`);

  }

  study(): void {

    console.log(`${this.name} is studying TypeScript.`);

  }

}

console.log("Single Inheritance Example:");

const student = new Student("RM", 112);

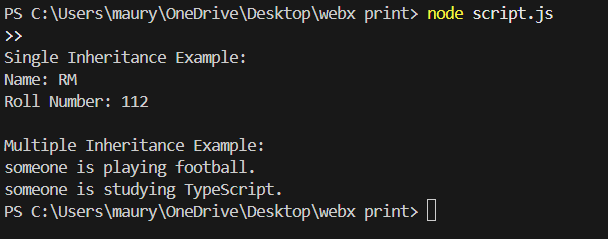
student.displayDetails();

console.log("\nMultiple Inheritance Example:");

const talentedStudent = new MultiTalentedStudent("someone");

talentedStudent.play();

talentedStudent.study();

**OUTPUT:** ****