here are two examples demonstrating various aspects of classes and object-oriented programming concepts in TypeScript:

Example 1: Basic Class Syntax, Constructor, Properties, and Methods

```
```typescript
// Define a class representing a Car
class Car {
 // Properties
 brand: string;
 model: string;
 year: number;
 // Constructor
 constructor(brand: string, model: string, year: number) {
 this.brand = brand;
 this.model = model;
 this.year = year;
 }
 // Method to display car details
 displayDetails(): void {
 console.log(`Brand: ${this.brand}, Model: ${this.model}, Year: ${this.year}`);
 }
}
// Create an instance of Car
let myCar = new Car("Toyota", "Camry", 2020);
// Access properties and call method
myCar.displayDetails();
Example 2: Inheritance and Method Overriding
```typescript
// Define a superclass representing a Shape
class Shape {
  // Properties
  color: string;
  // Constructor
  constructor(color: string) {
     this.color = color;
```

```
}
  // Method to display shape color
  displayColor(): void {
     console.log(`Color: ${this.color}`);
  }
}
// Define a subclass representing a Circle, inheriting from Shape
class Circle extends Shape {
  // Properties
  radius: number;
  // Constructor
  constructor(color: string, radius: number) {
     super(color);
     this.radius = radius;
  }
  // Method to calculate and display area
  displayArea(): void {
     const area = Math.PI * this.radius * this.radius;
     console.log(`Area: ${area.toFixed(2)}`);
  }
  // Method Overriding: Override displayColor method
  displayColor(): void {
     console.log(`Circle Color: ${this.color}`);
  }
}
// Create an instance of Circle
let myCircle = new Circle("Red", 5);
// Access properties and call methods
myCircle.displayColor(); // Output: Circle Color: Red
myCircle.displayArea(); // Output: Area: 78.54
```

These examples showcase the basic syntax of classes in TypeScript, including constructors, properties, methods, inheritance, and method overriding.