callback function in typescript example

In TypeScript, callback functions are commonly used to handle asynchronous operations, such as fetching data from a server, reading files, or executing tasks that take some time to complete. Here's an example of how to define and use a callback function in TypeScript:

data.service.ts:

```
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { Observable } from 'rxjs';
@Injectable({
 providedIn: 'root'
})
export class DataService {
 private apiUrl = 'https://jsonplaceholder.typicode.com/posts'; // Example API URL, replace with your
API endpoint
 constructor(private http: HttpClient) { }
 // Fetch product item data from a fake API asynchronously
 fetchDataFromAPI(): Observable<ProductItem[]> {
  return this.http.get<ProductItem[]>(this.apiUrl);
 }
}
export interface ProductItem {
 userId: number;
 id: number;
 title: string;
```

```
body: string;
}
app.component.ts:
import { Component, OnInit } from '@angular/core';
import { DataService, ProductItem } from './data.service';
@Component({
selector: 'app-root',
templateUrl: './app.component.html',
styleUrls: ['./app.component.css']
})
export class AppComponent implements OnInit {
fetchedData: ProductItem[];
constructor(private dataService: DataService) {}
 ngOnInit() {
  // Call the fetchDataFromAPI function from the DataService and subscribe to the Observable
  this.dataService.fetchDataFromAPI().subscribe(
   (data: ProductItem[]) => {
    // Handle the fetched data
    this.fetchedData = data;
   },
   (error) => {
    console.error('Error fetching data:', error);
   }
  );
```

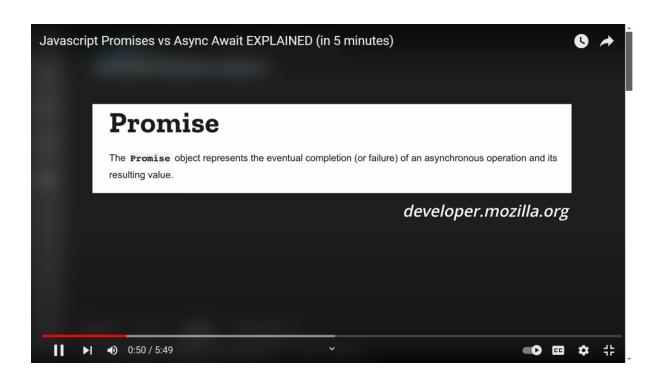
app.component.html:

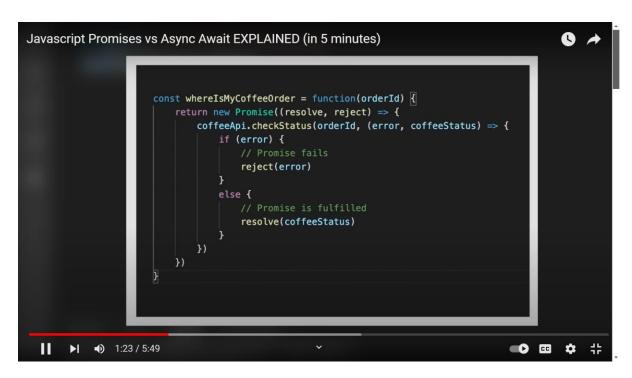
```
<div>
<h1>Fetched Products:</h1>

<strong>Title:</strong> {{ item.title }}<br>
<strong>Body:</strong> {{ item.body }}
</di>
</di>
</di>
```

what is promises in Typescript with code examples Angular?

In Angular applications, promises are often used to handle asynchronous operations such as making HTTP requests to fetch data from a server. Angular's HttpClient module returns Observables by default for handling HTTP requests, but you can convert these Observables into promises using the .toPromise() method if needed. Here's an example of using promises in Angular:





```
Javascript Promises vs Async Await EXPLAINED (in 5 minutes)

// Handle fulfilled (resolved) promises
promise.then((result) => { })

// Handle failed (rejected) promises
promise.catch((error) => { })
```

