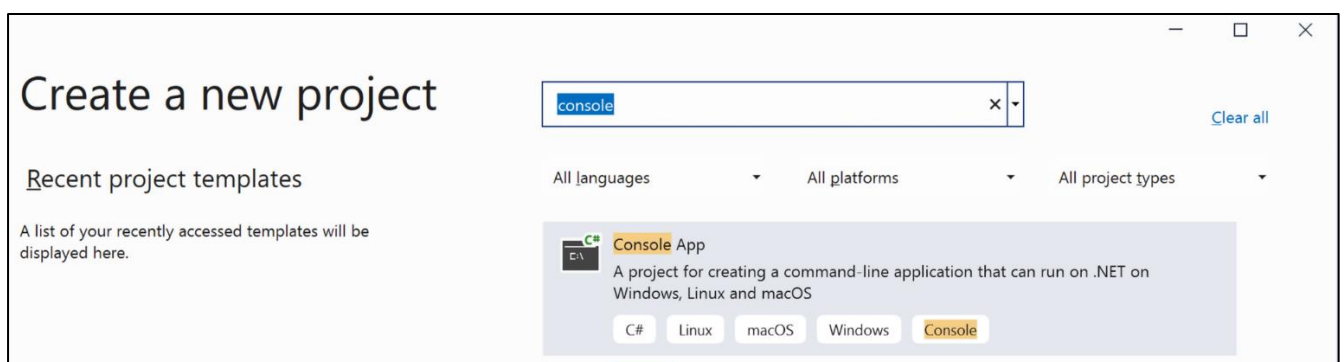
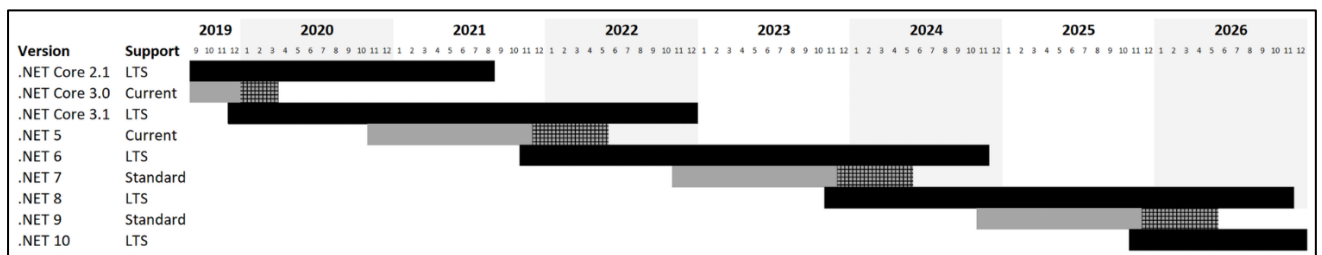
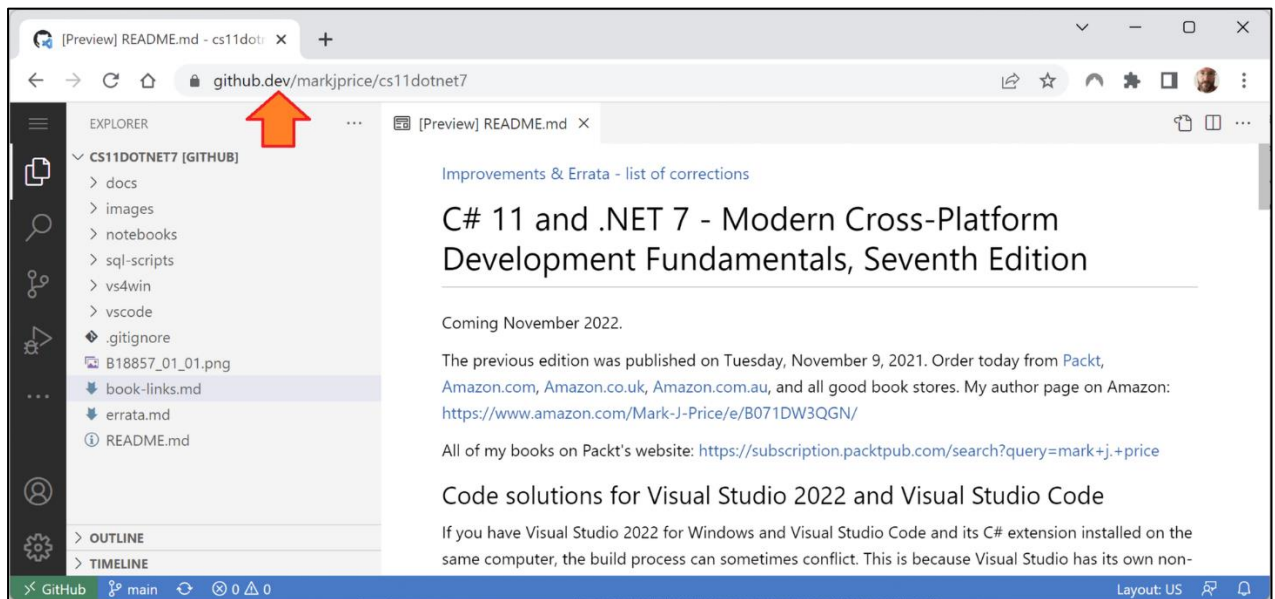
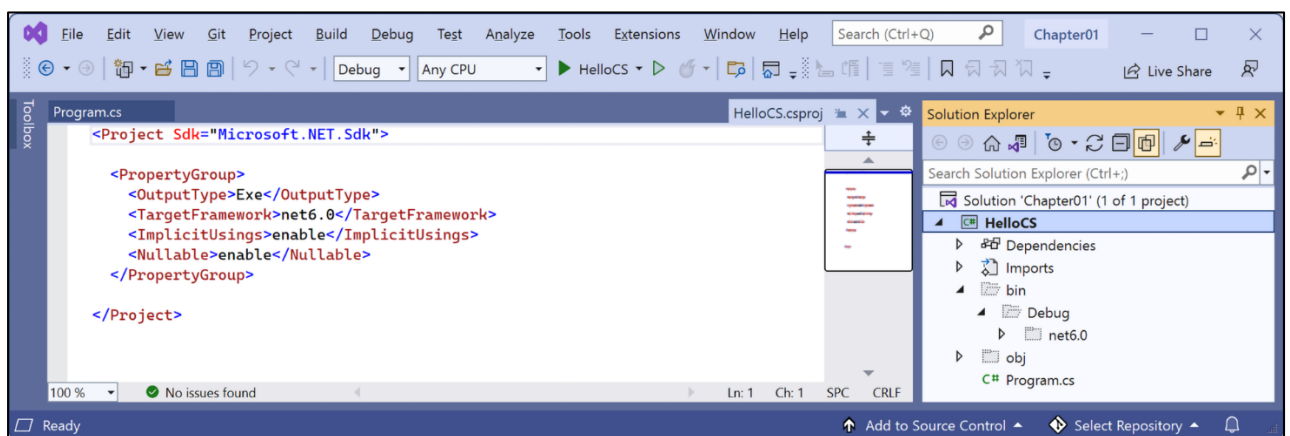
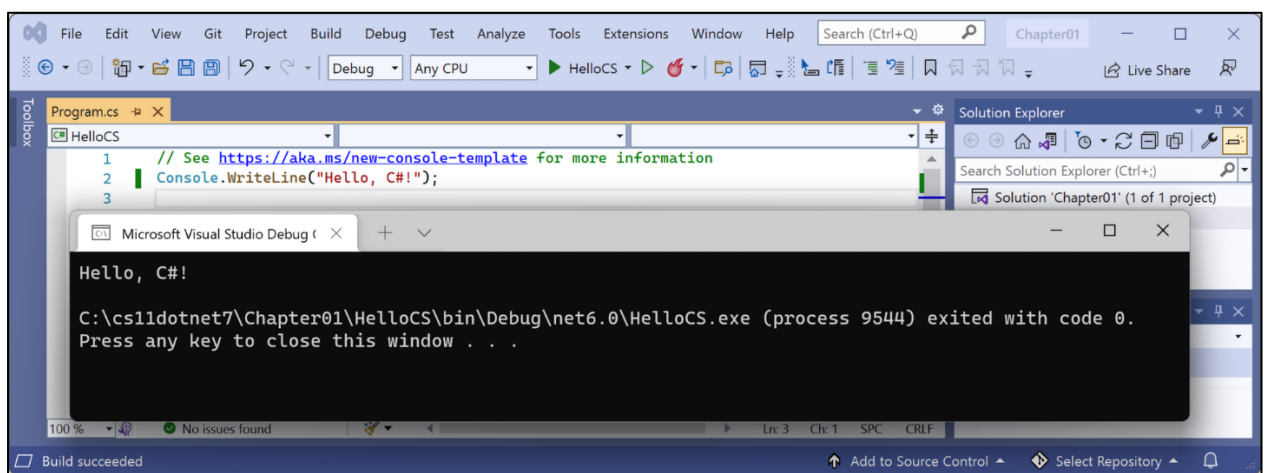
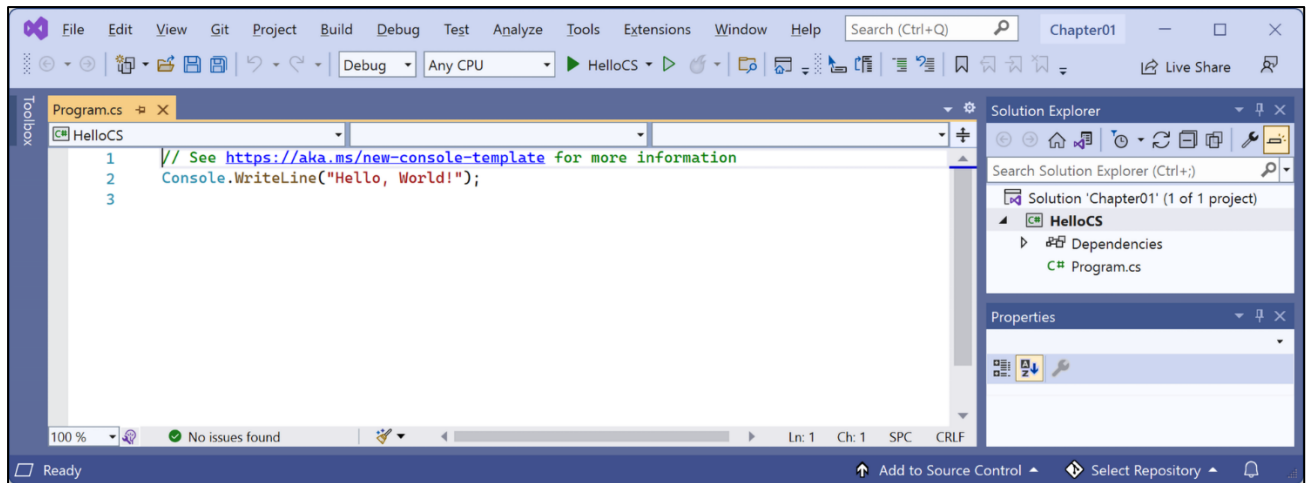
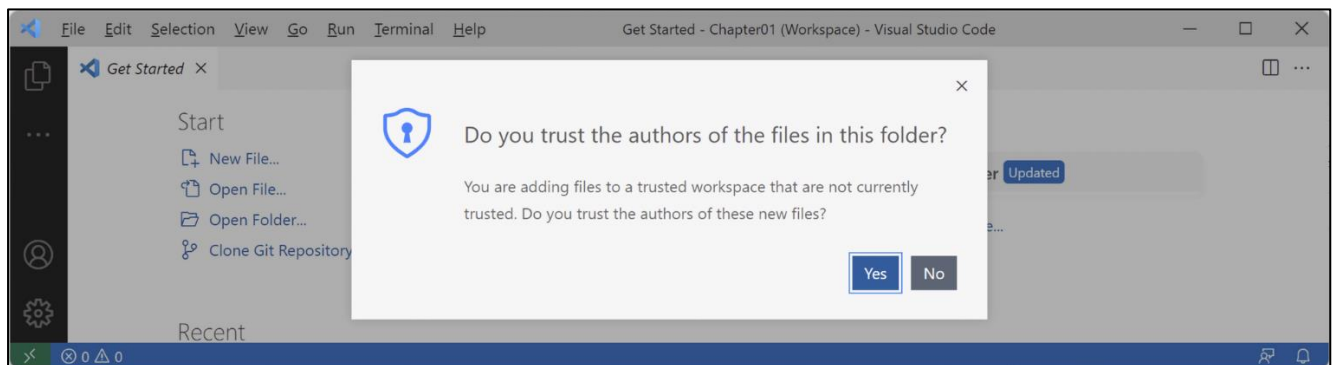
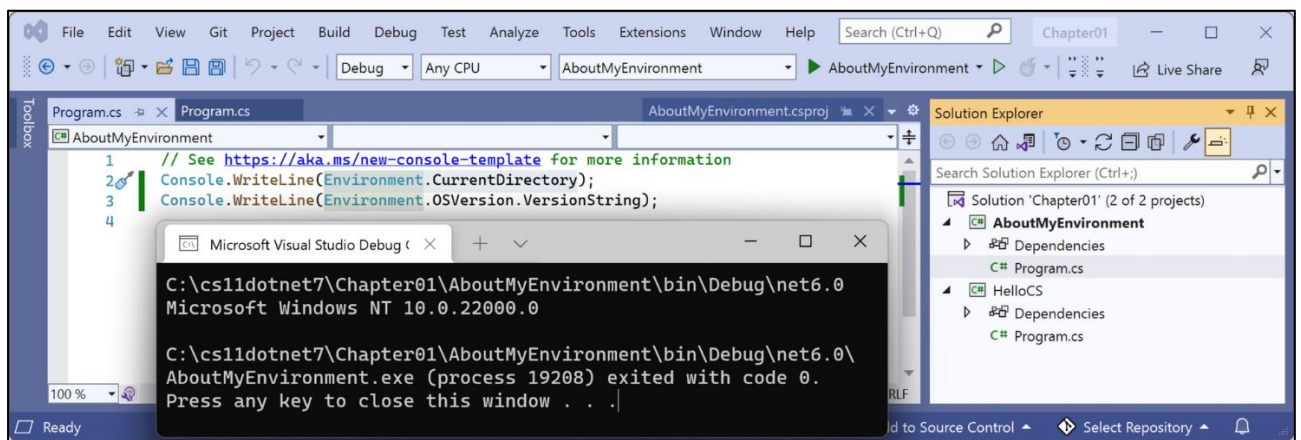
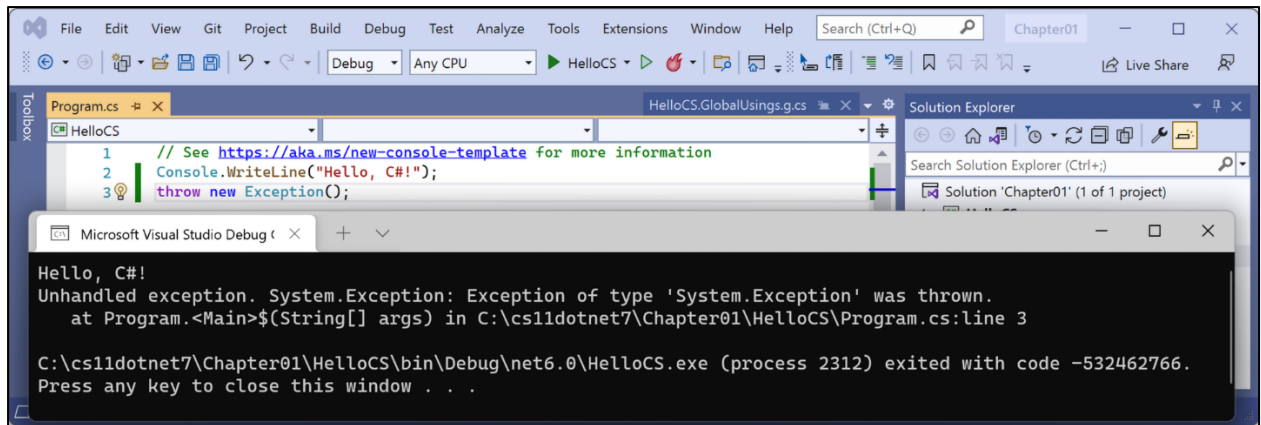
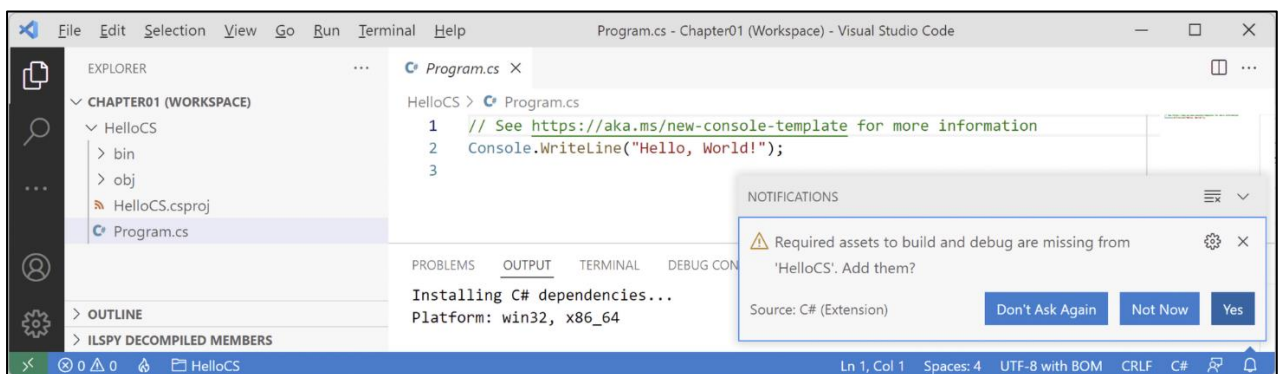
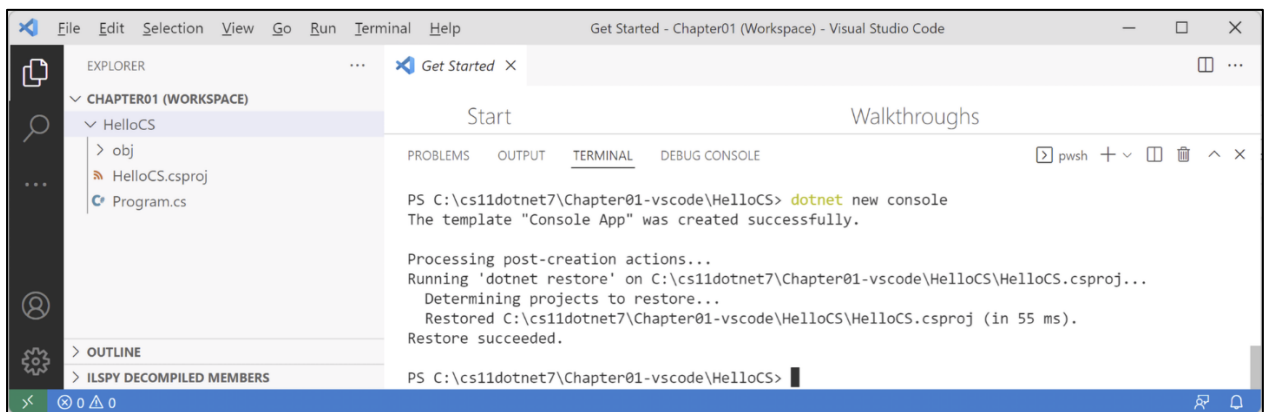
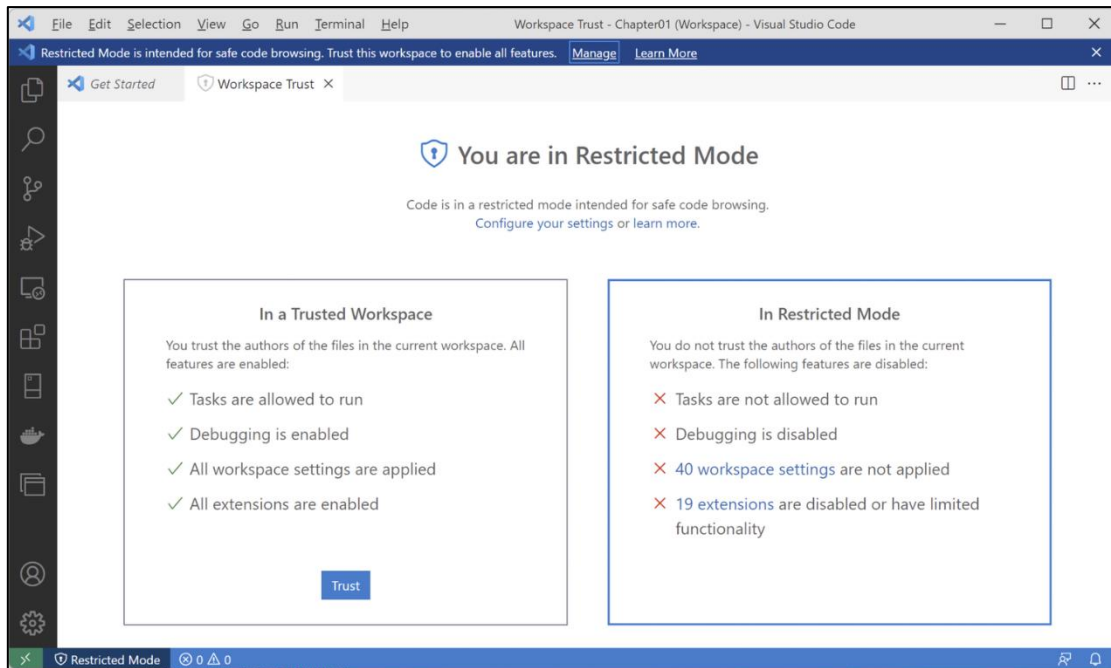


# Chapter 1: Hello, C#! Welcome, .NET!

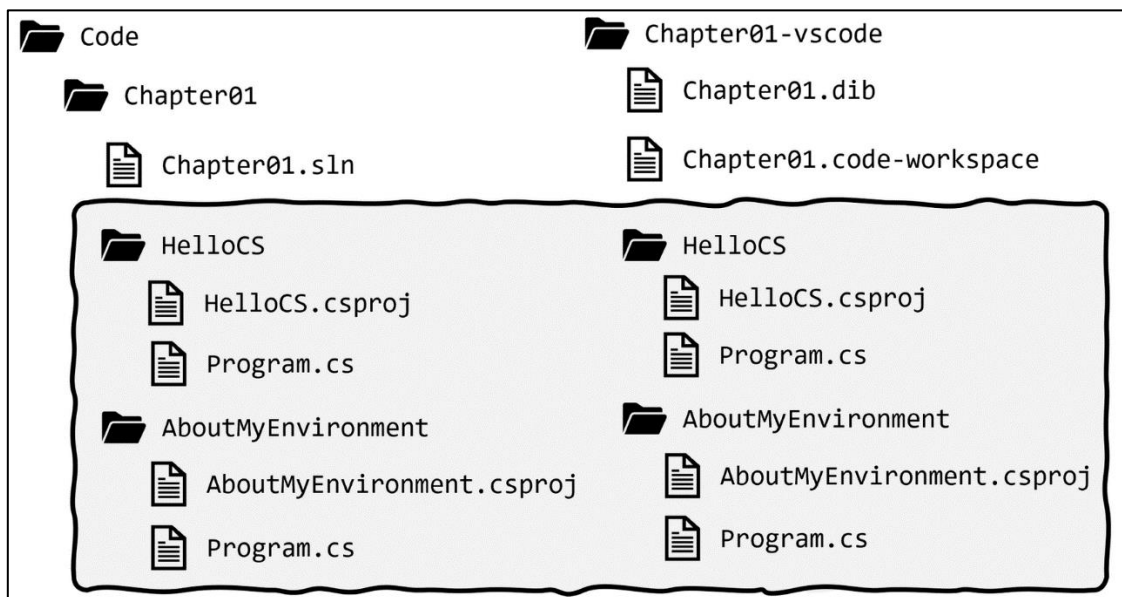
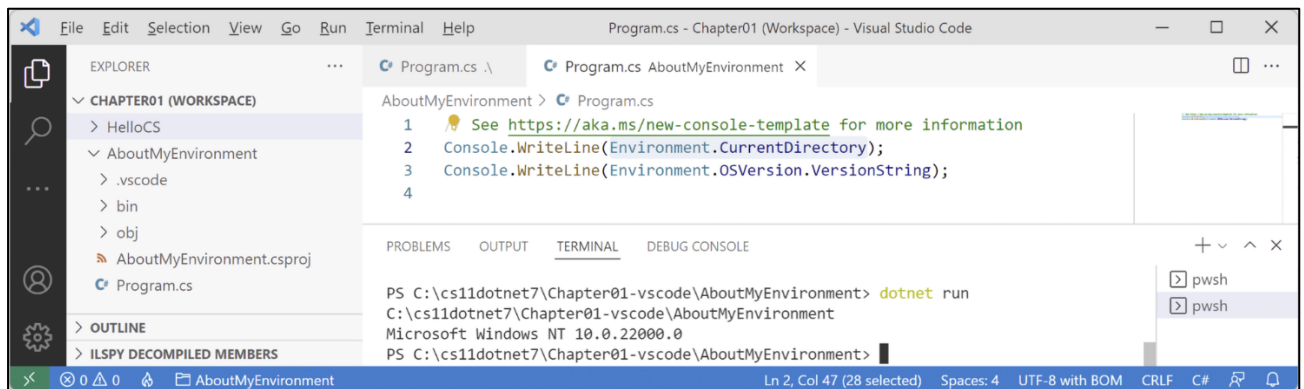
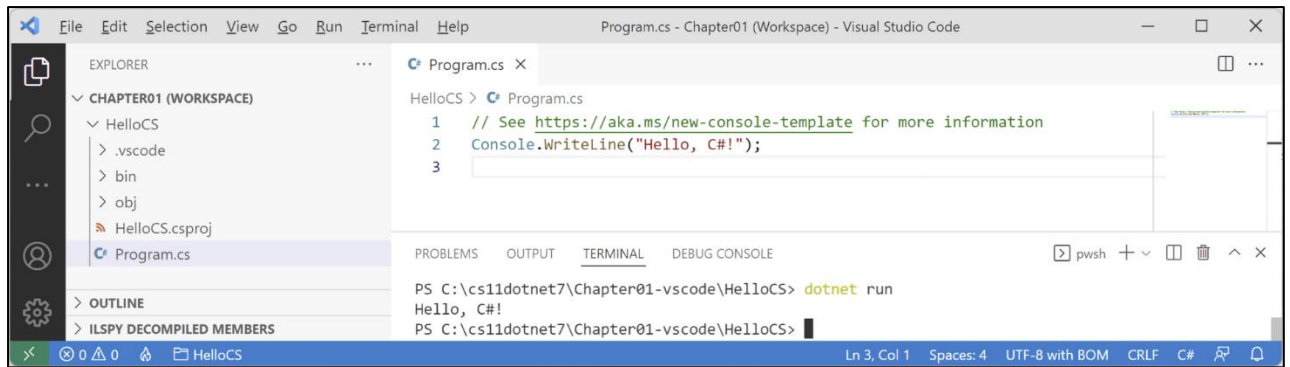


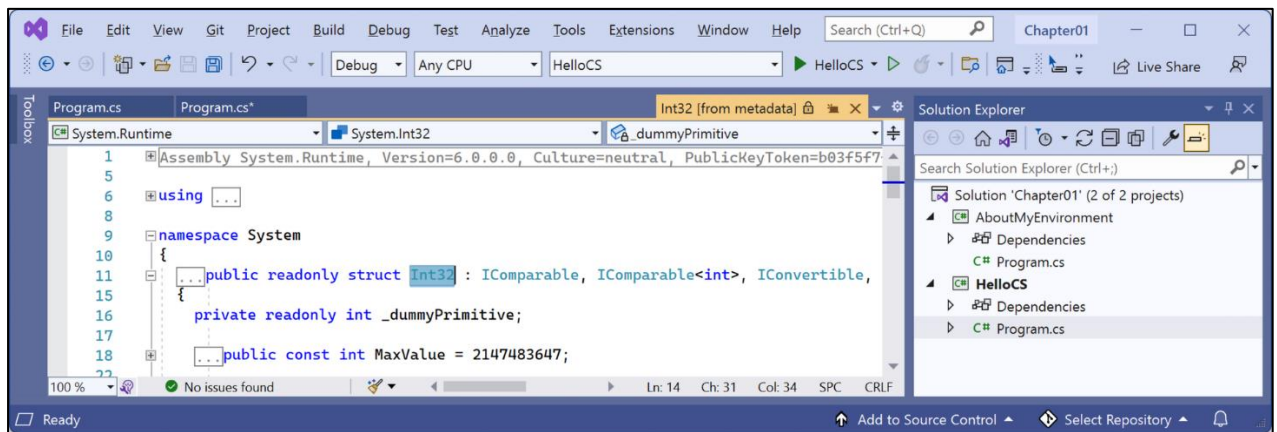
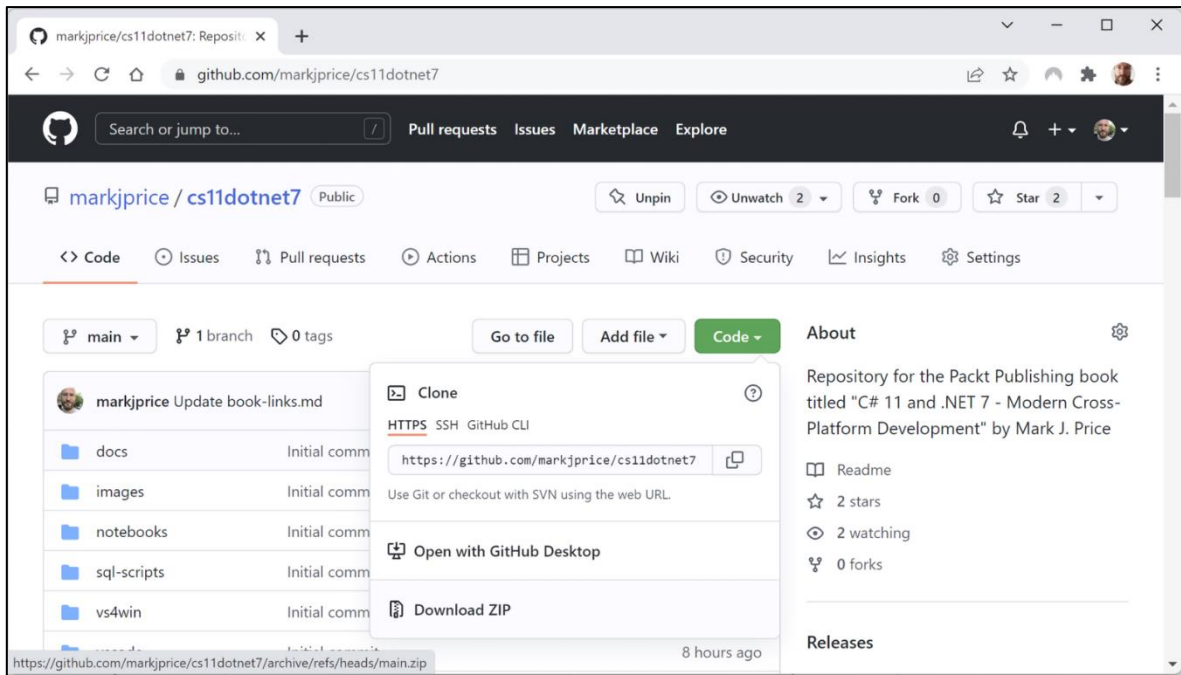


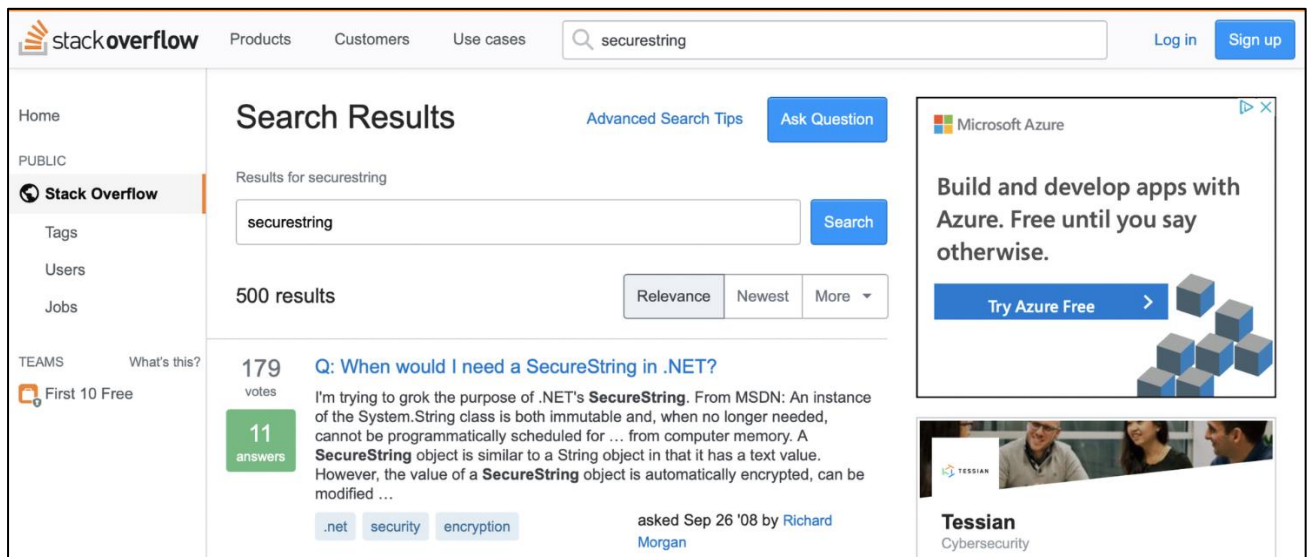
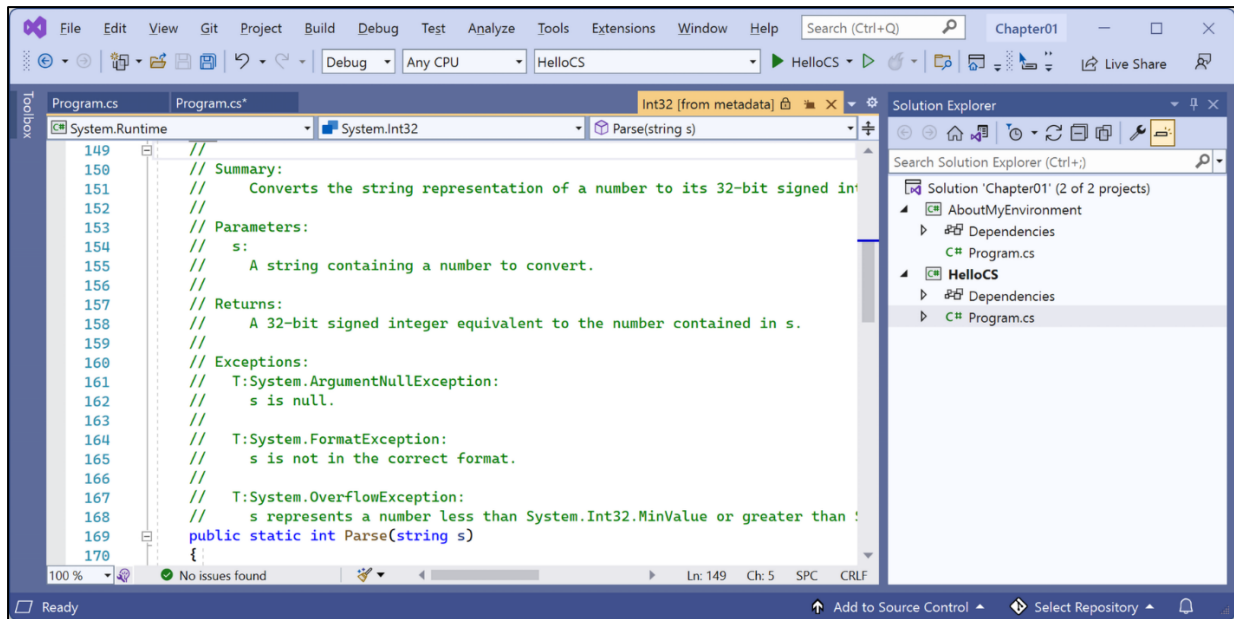












1. **C# language**, including new C# 11 features, object-oriented programming, and debugging and unit testing.
2. **.NET libraries**, including numbers, text, and collections, file I/O, and data with EF Core 7.
3. **Websites and web services** with ASP.NET Core 7 and Blazor.

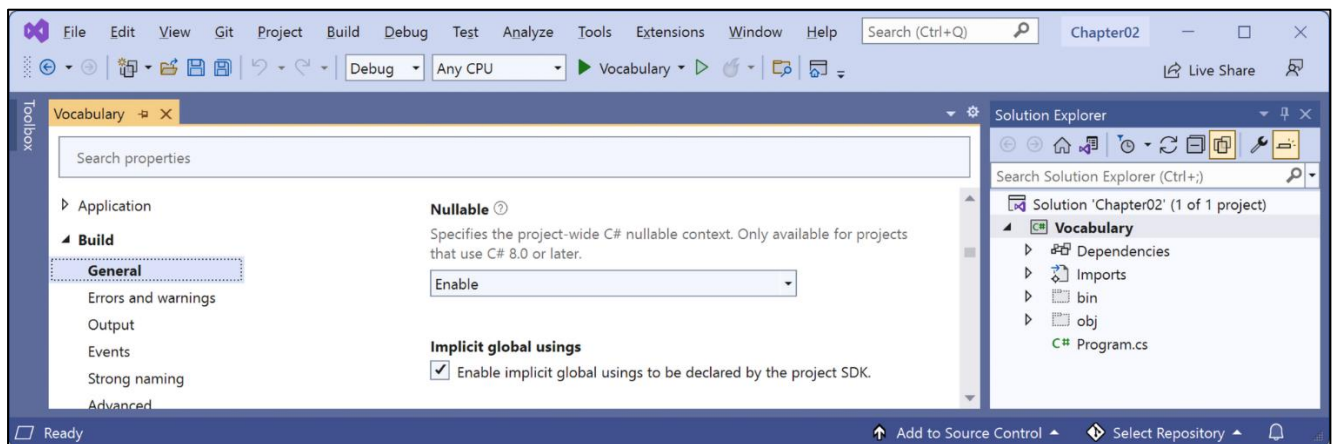
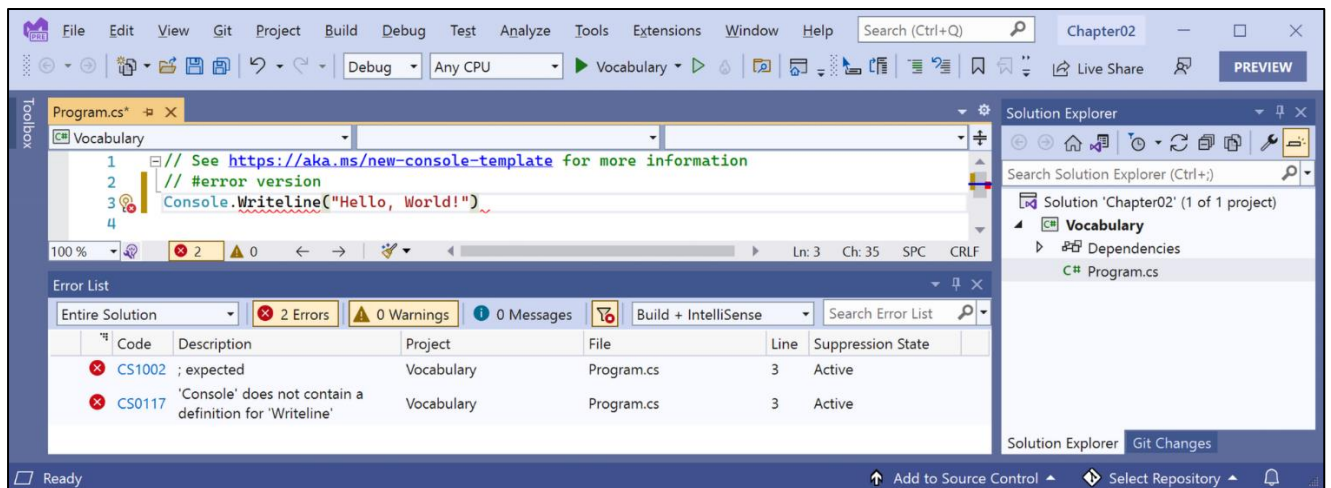
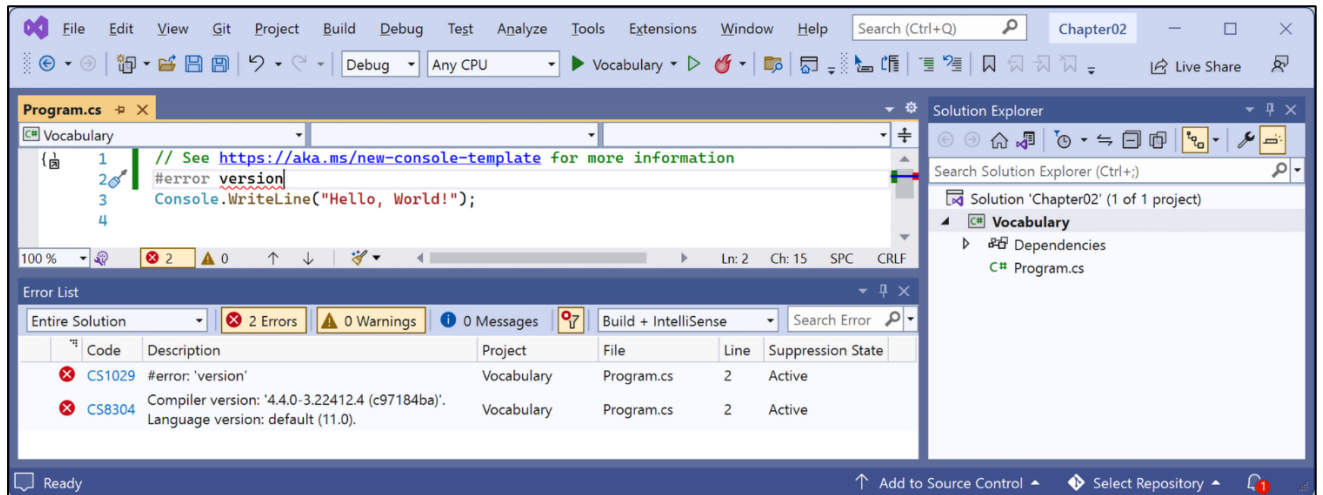
*Fundamentals*



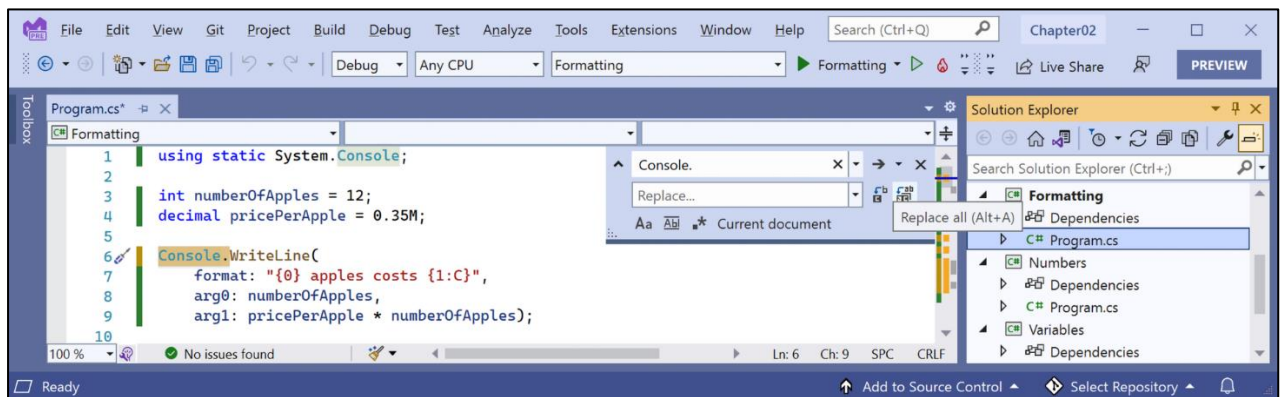
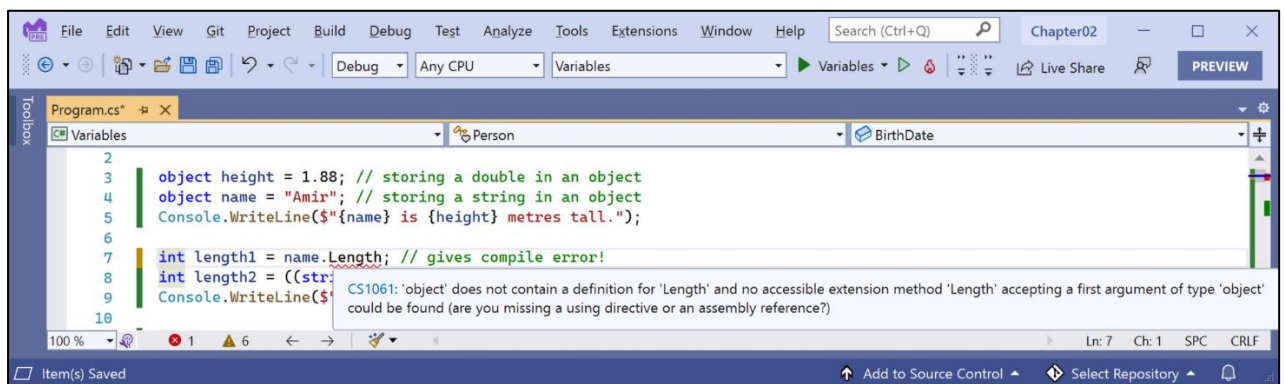
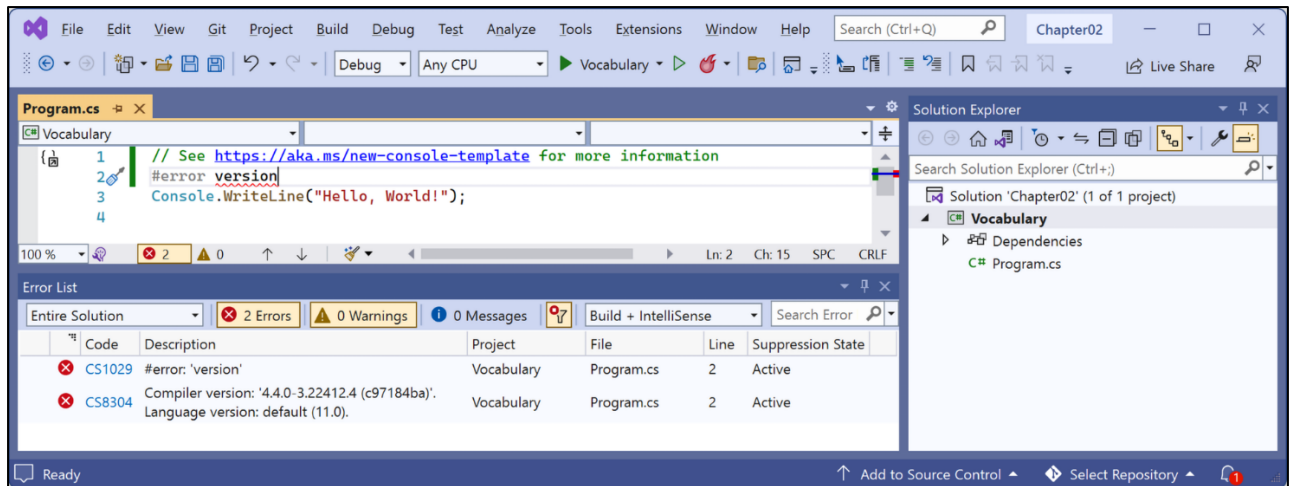
1. **More .NET libraries** like internationalization, multitasking, and security.
2. **More data** with SQL Server and Azure Cosmos DB.
3. **More services** with Minimal Web API, OData, GraphQL, gRPC, SignalR, and Azure Functions.
4. **More graphical user interfaces** with ASP.NET Core MVC, Razor, Blazor, and .NET MAUI.

*Practical Applications*

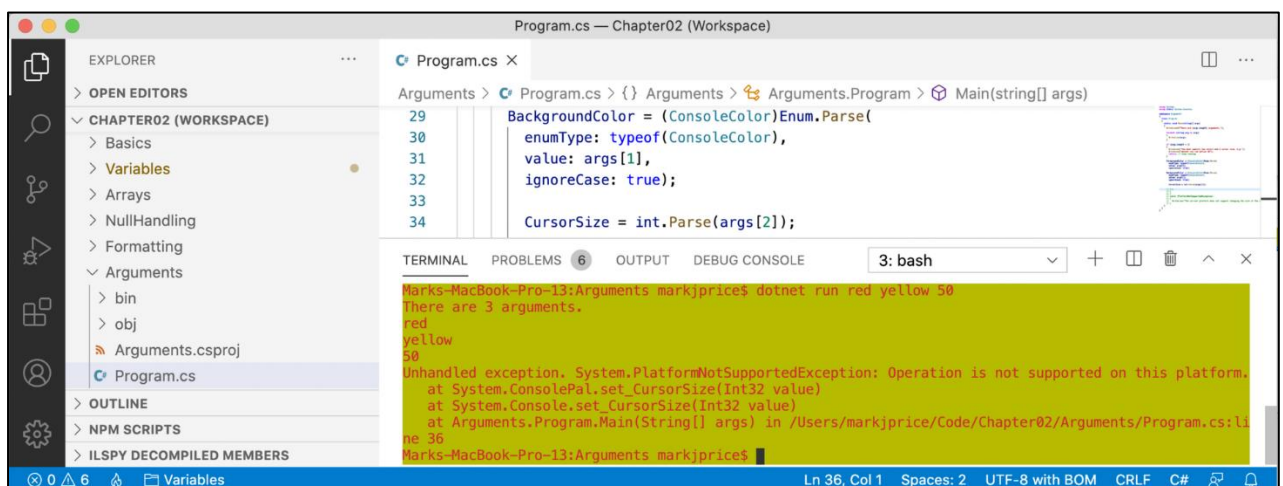
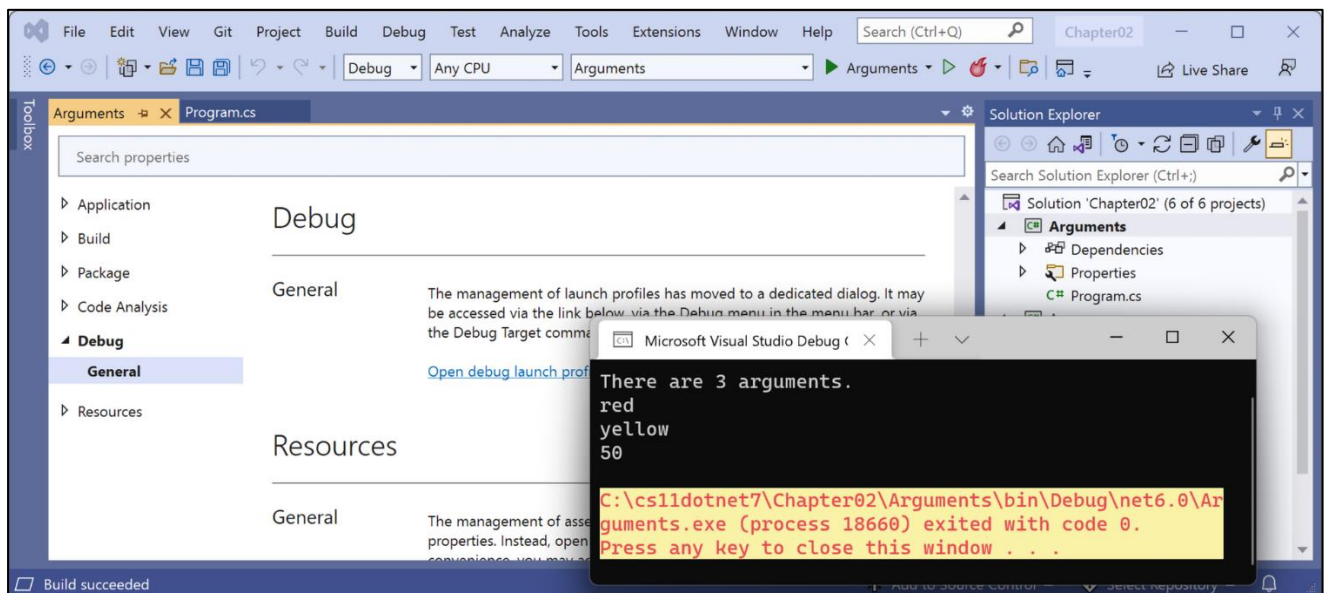
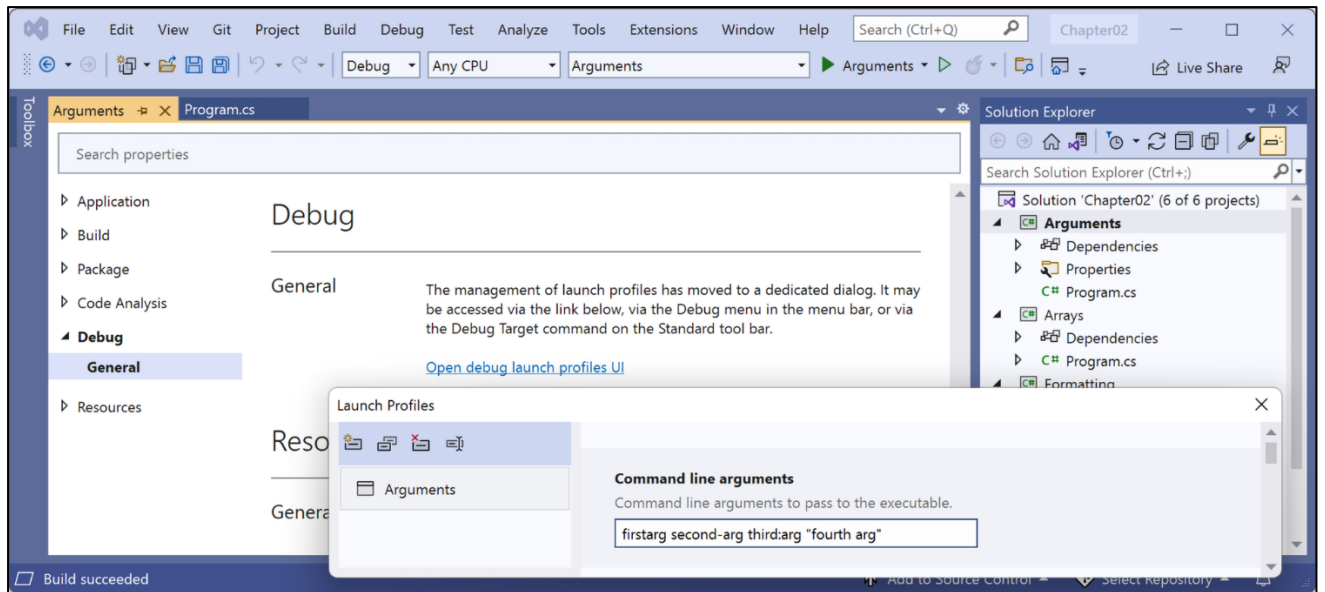
## Chapter 2: Speaking C#







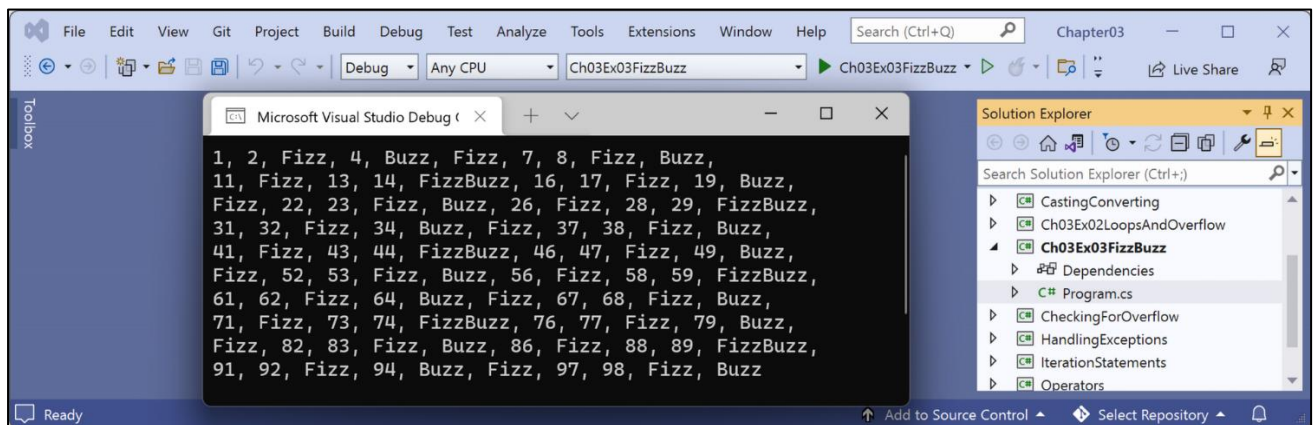
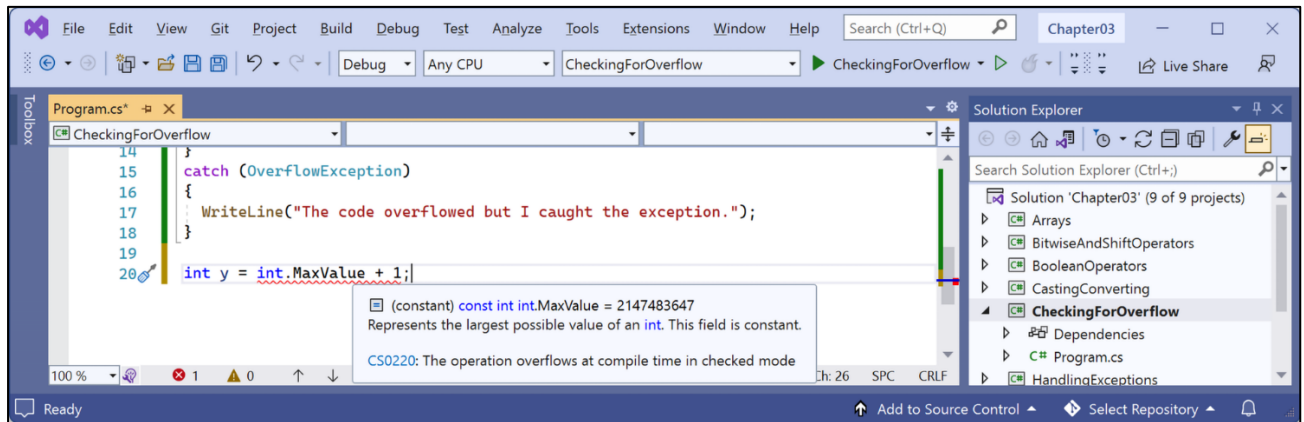




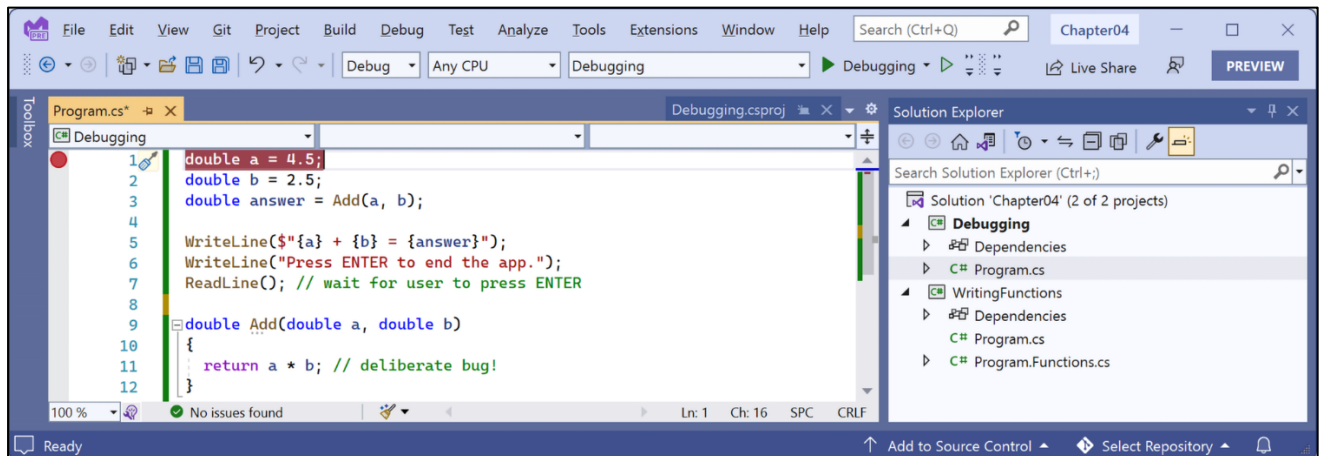
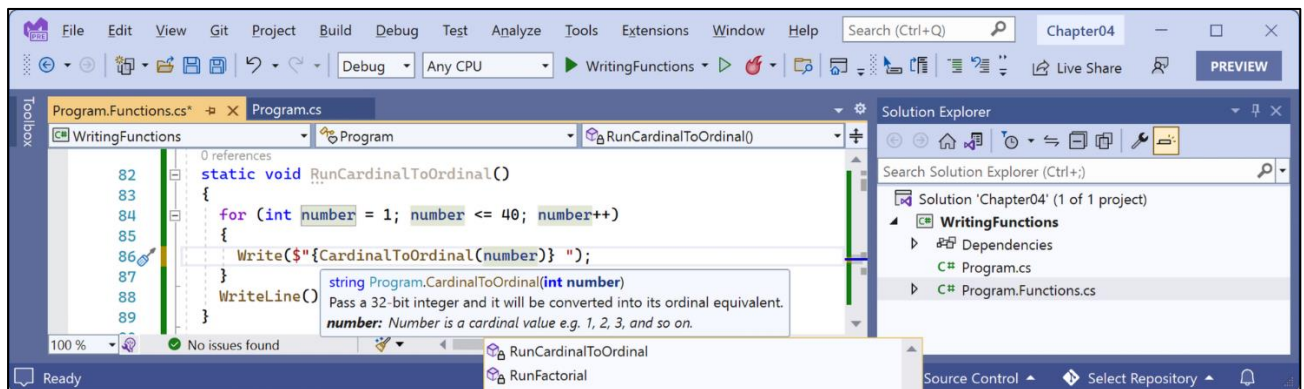
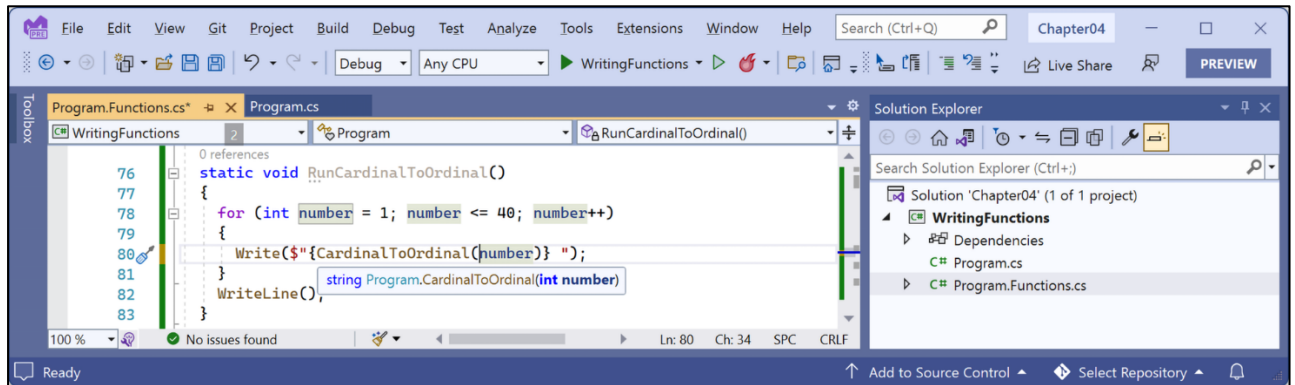
Microsoft Visual Studio Debug Console

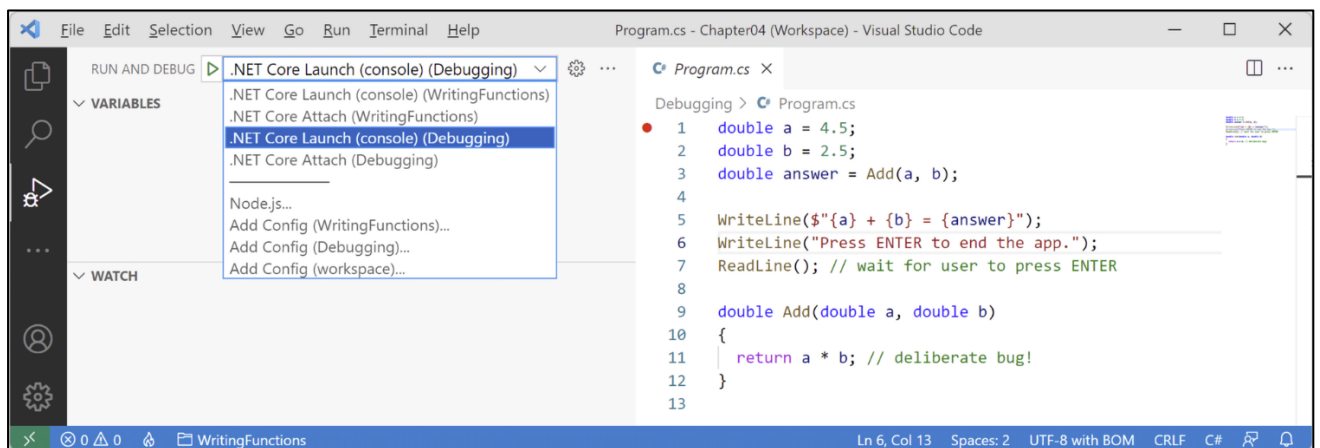
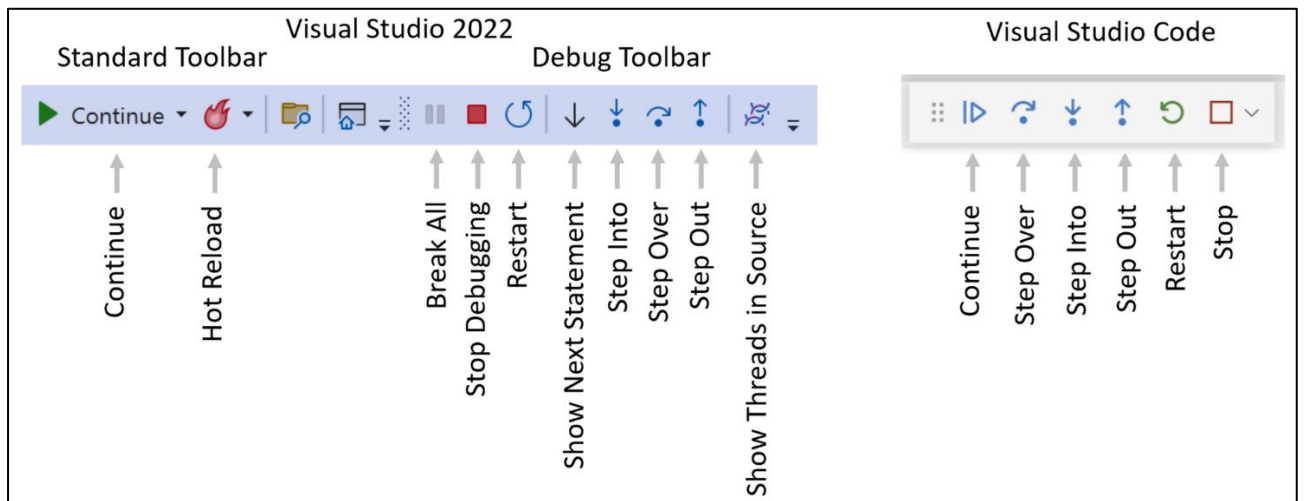
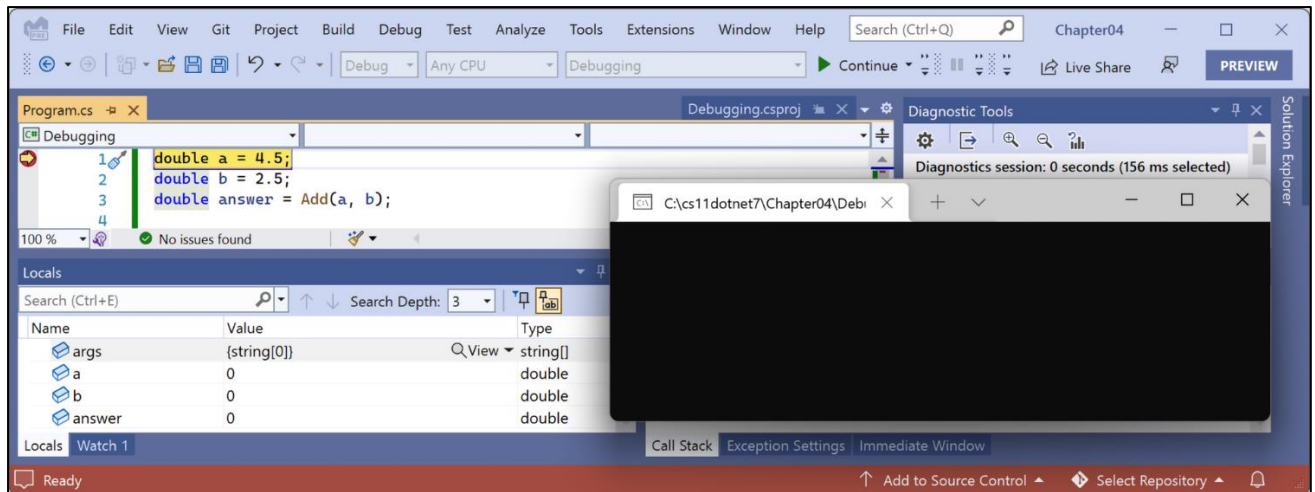
Type	Byte(s) of memory	Min	Max
sbyte	1	-128	127
byte	1	0	255
short	2	-32768	32767
ushort	2	0	65535
int	4	-2147483648	2147483647
uint	4	0	4294967295
long	8	-9223372036854775808	9223372036854775807
ulong	8	0	18446744073709551615
float	4	-3.4028235E+38	3.4028235E+38
double	8	-1.7976931348623157E+308	1.7976931348623157E+308
decimal	16	-79228162514264337593543950335	79228162514264337593543950335

## Chapter 3: Controlling Flow, Converting Types, and Handling Exceptions

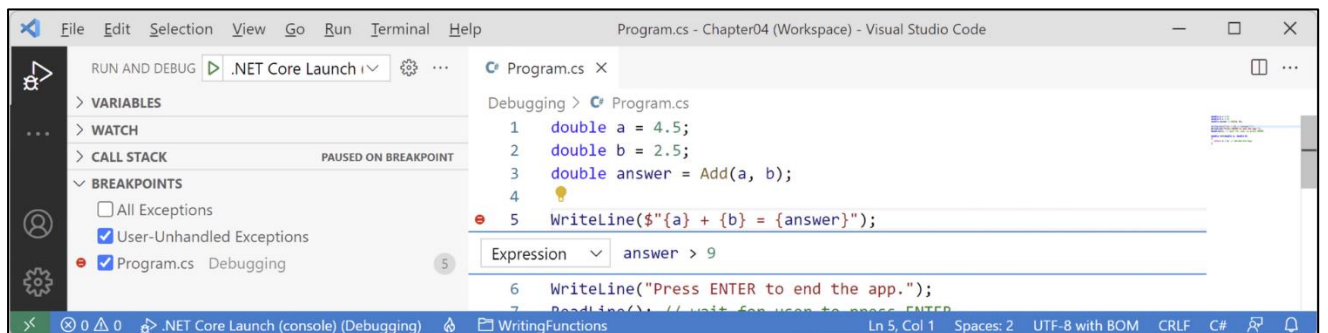
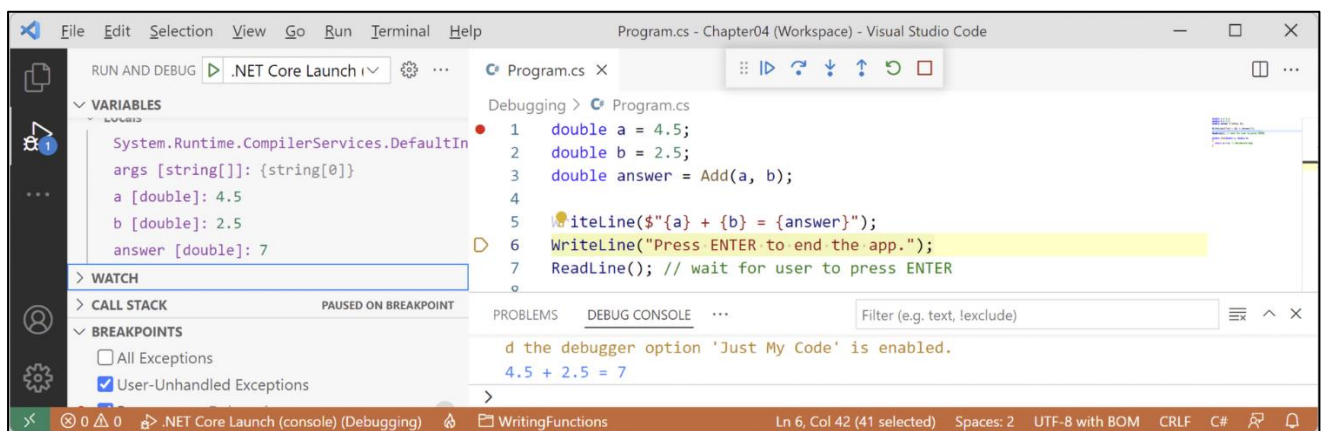
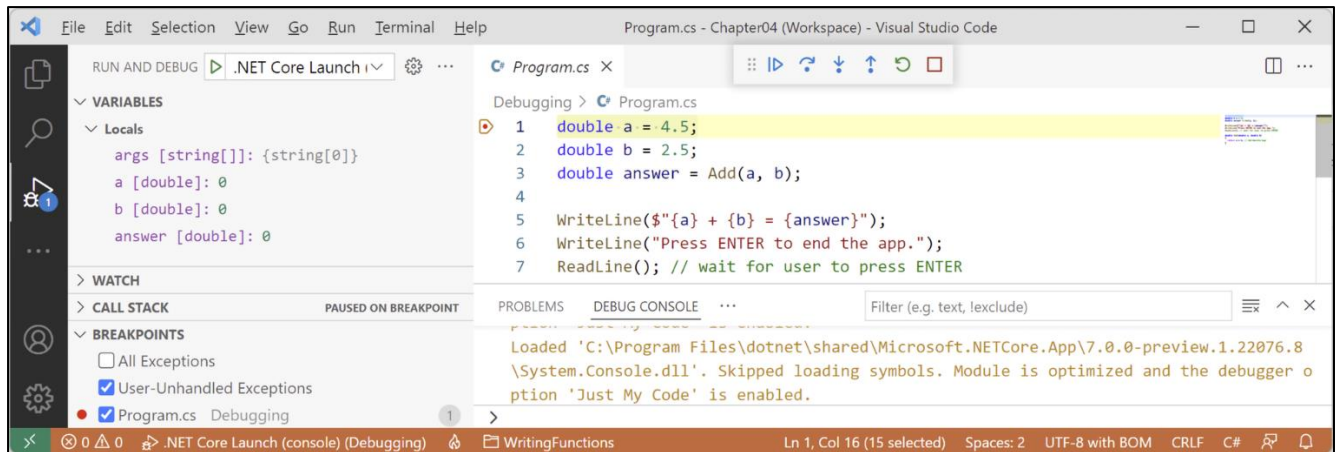


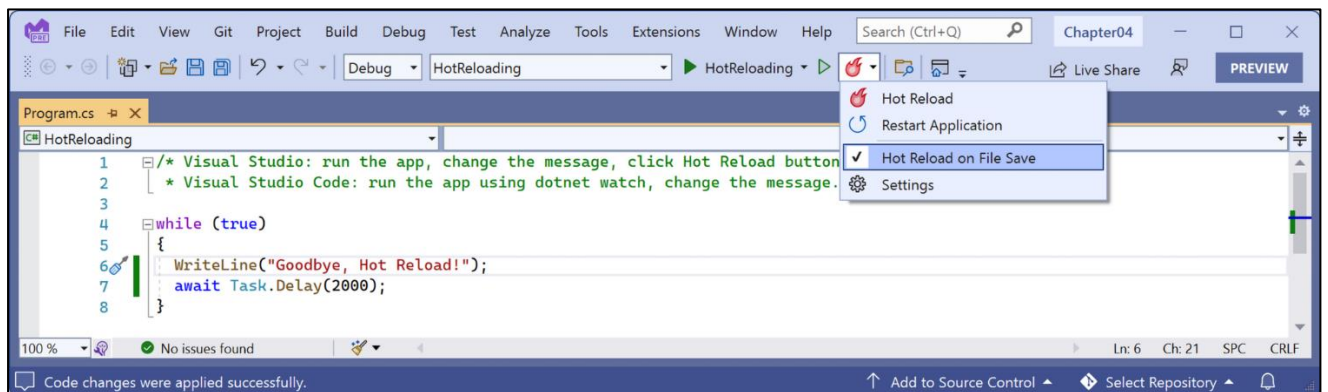
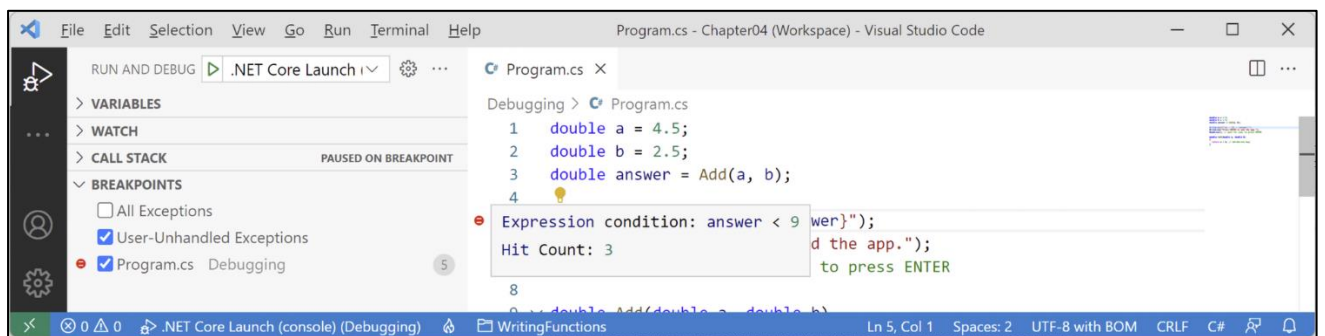
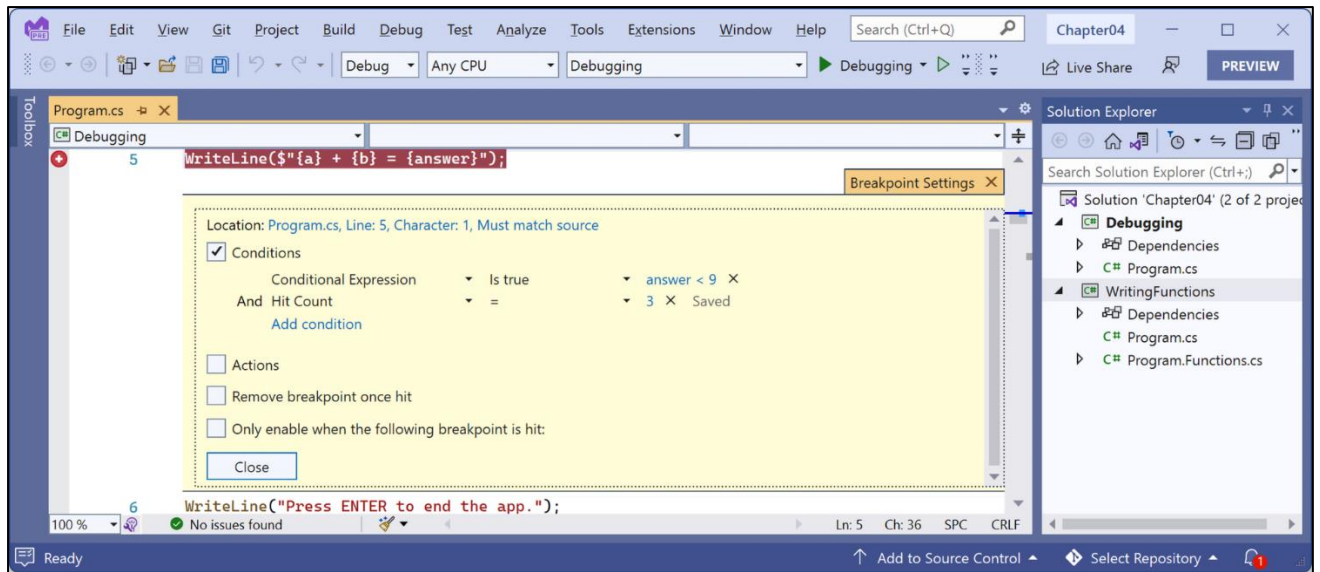
## Chapter 4: Writing, Debugging, and Testing Functions

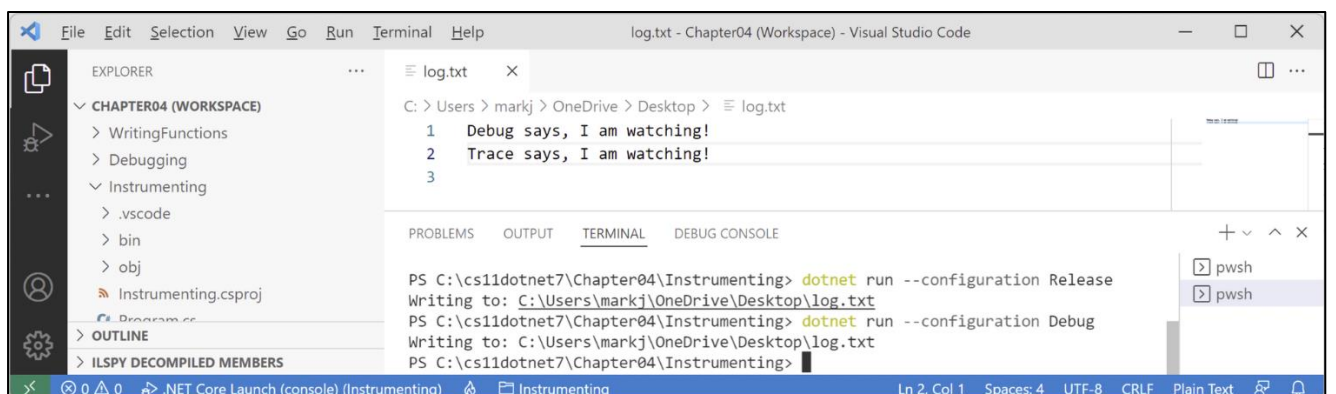
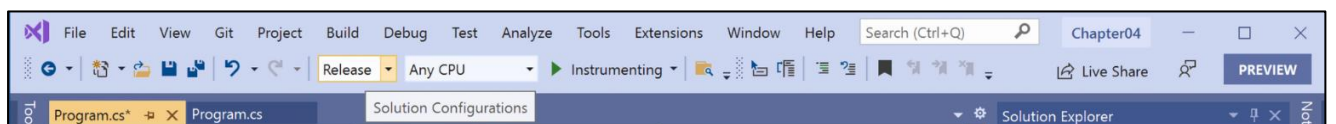
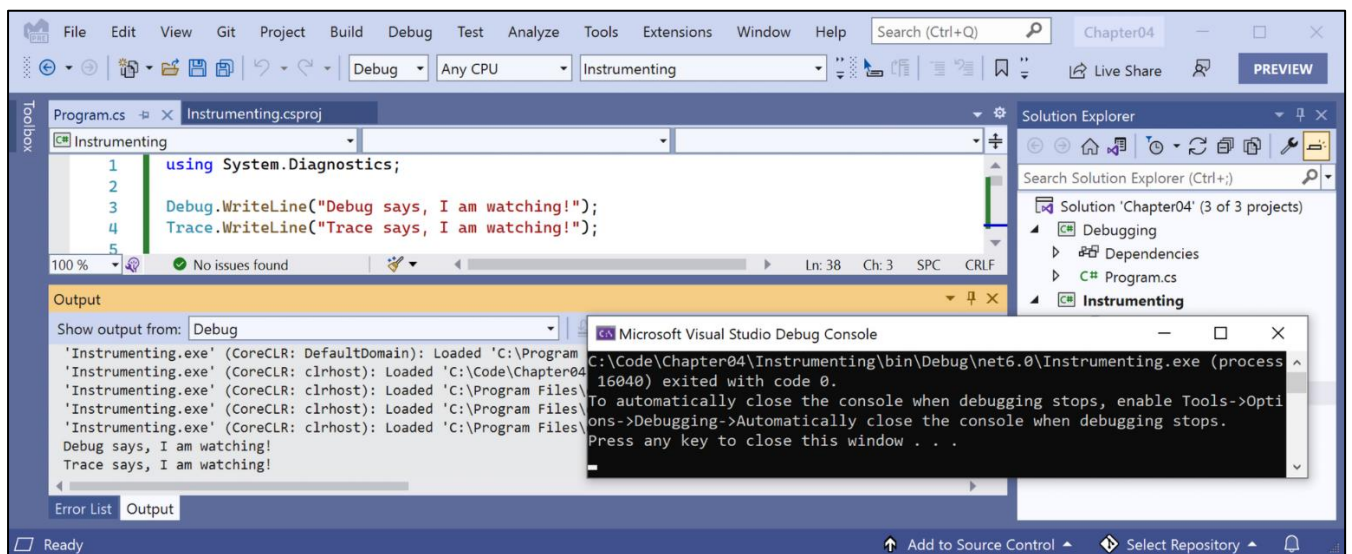
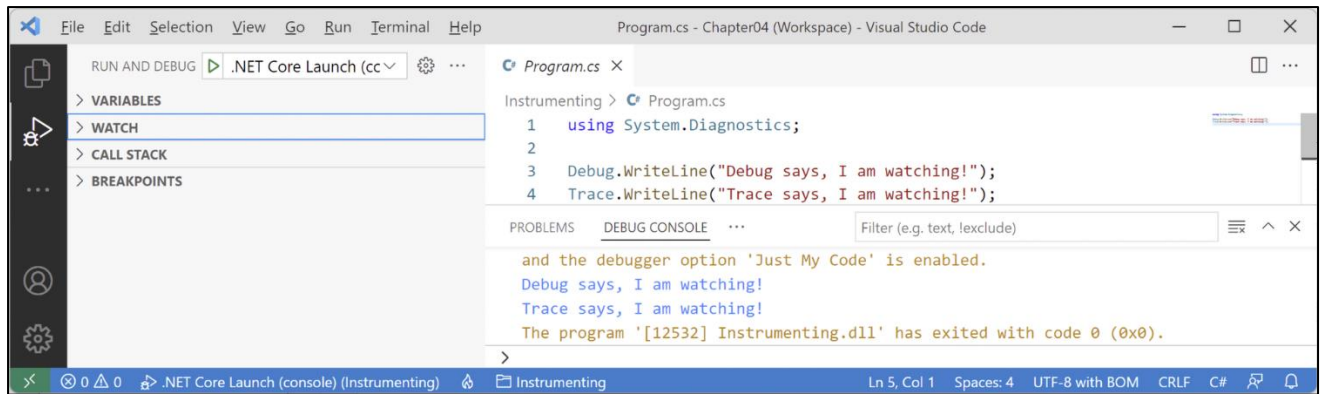


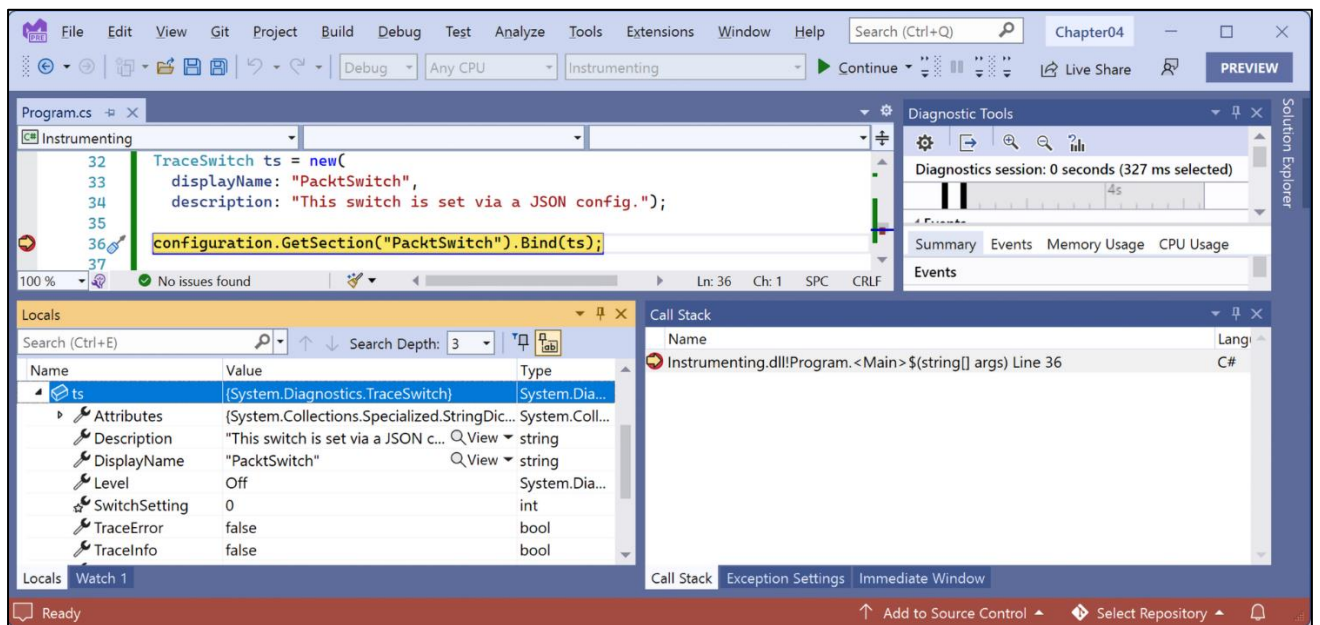
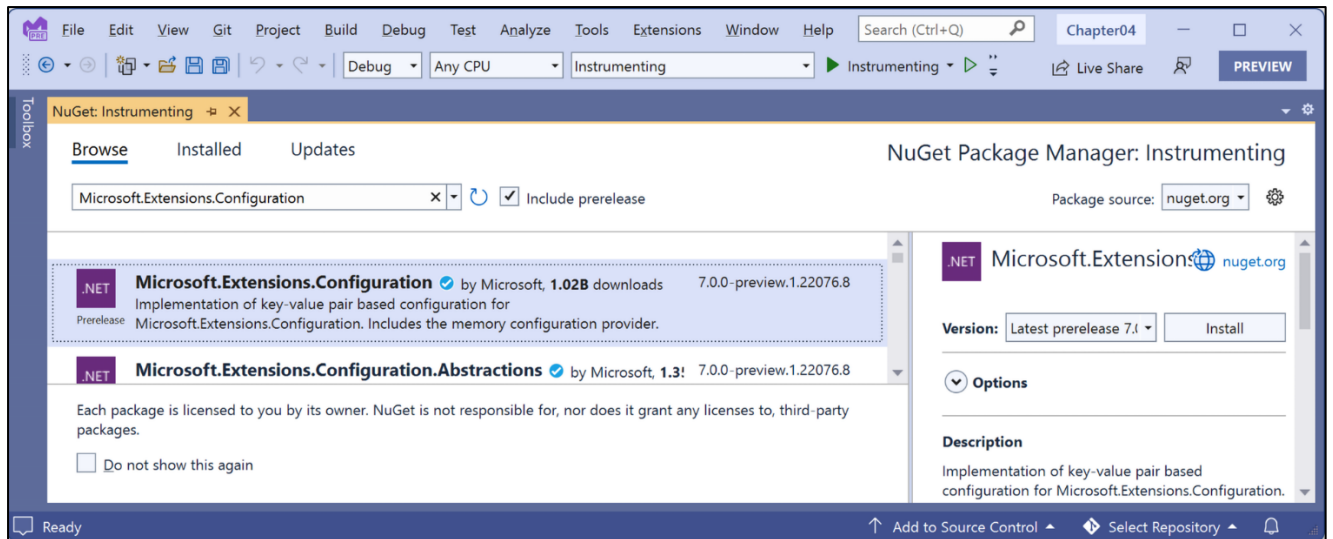




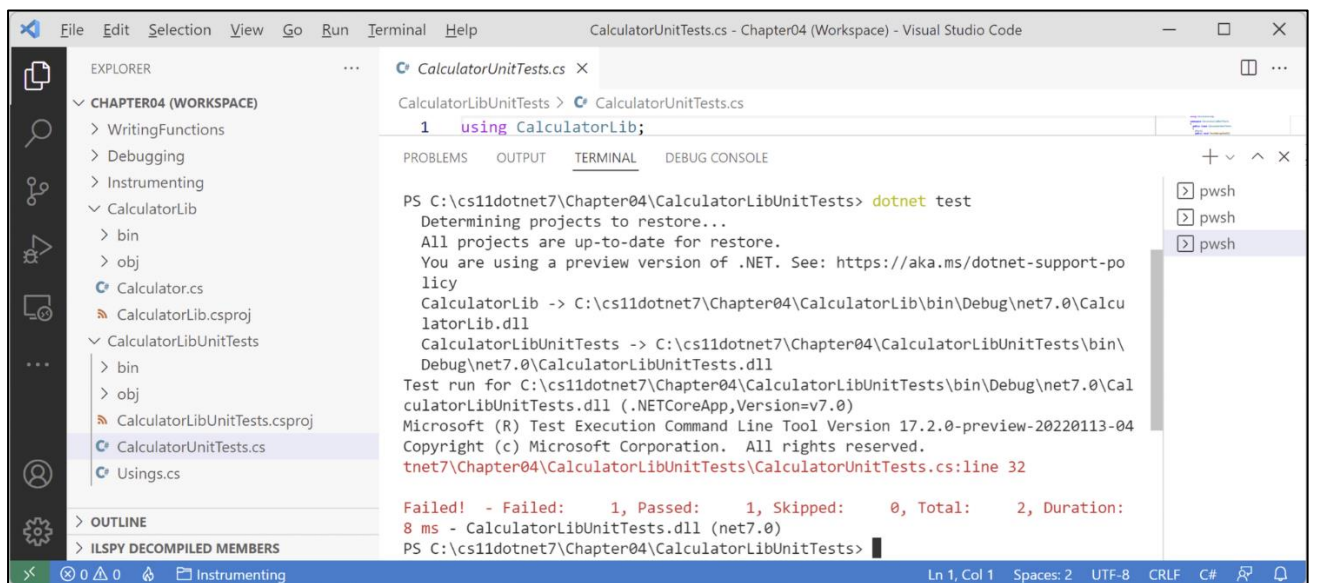
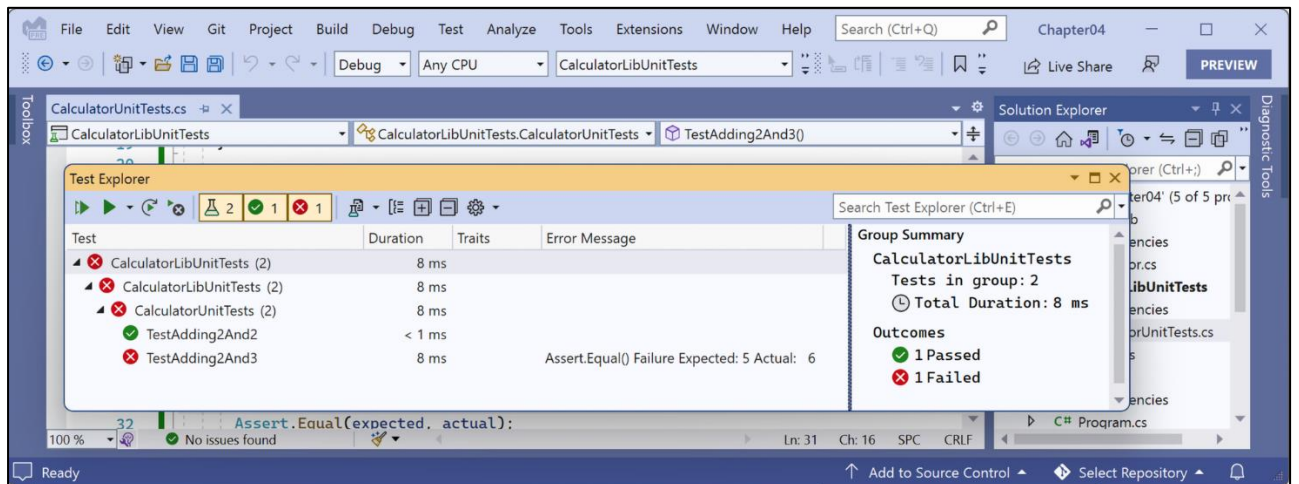
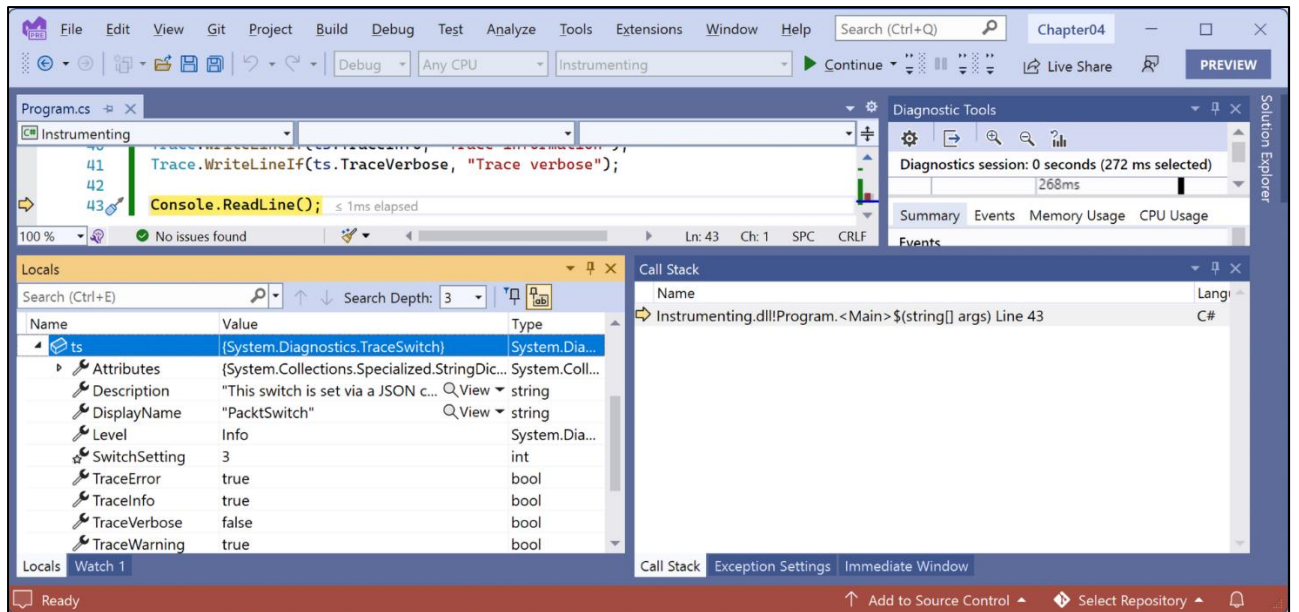




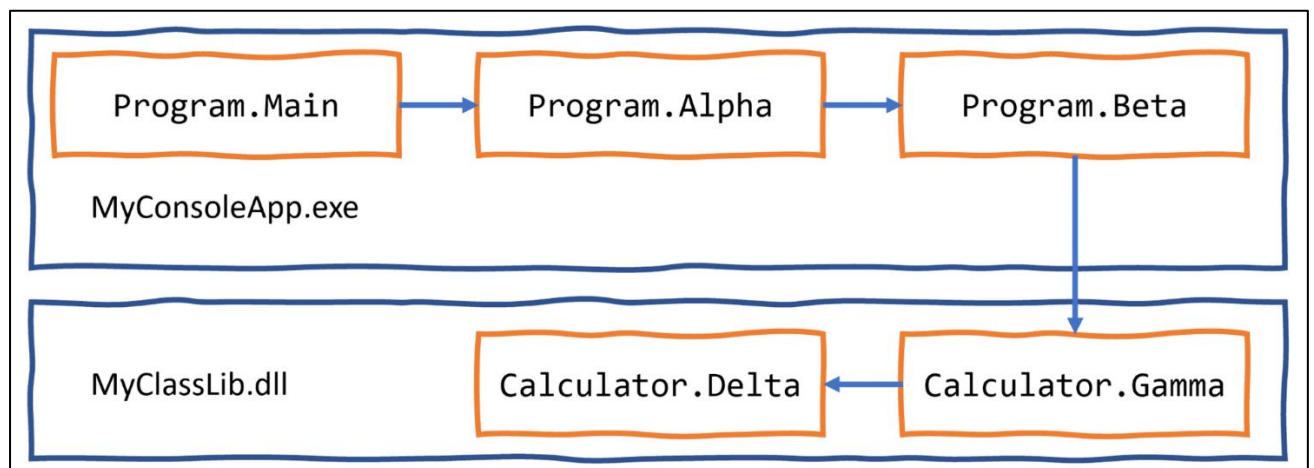




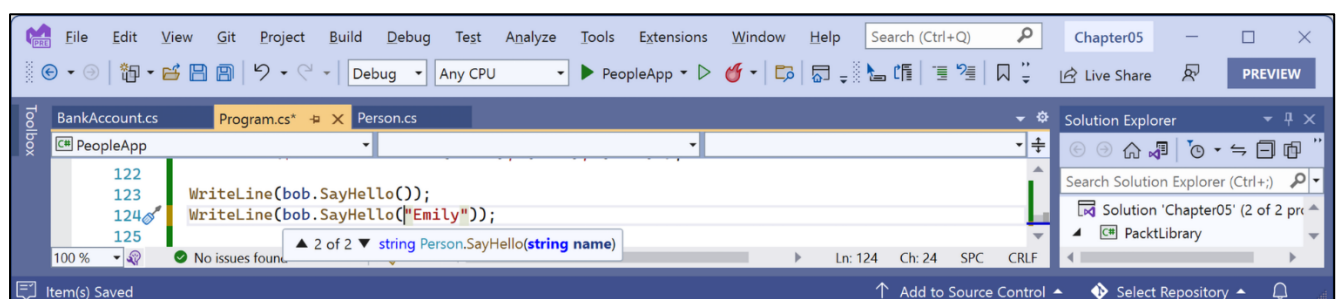
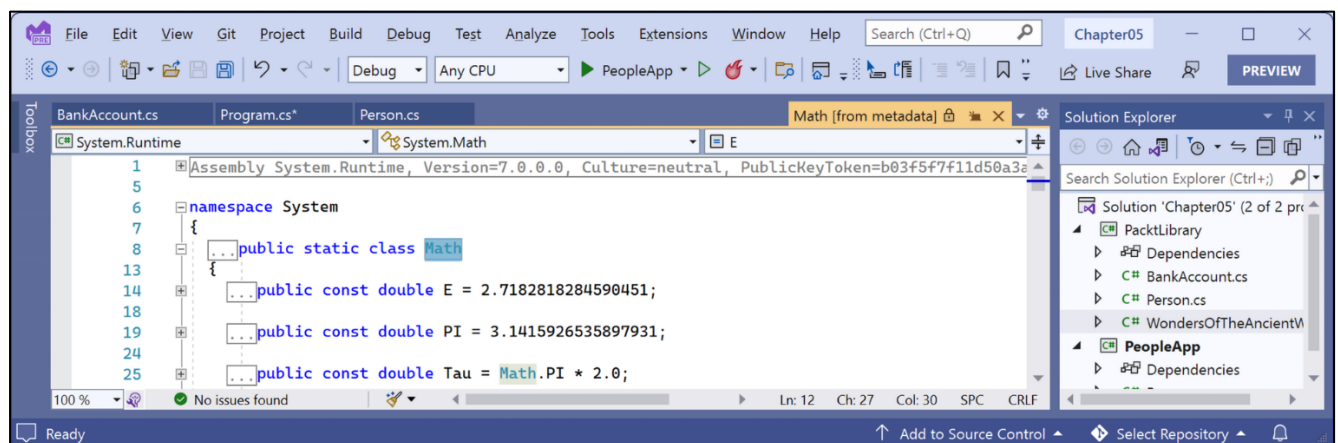
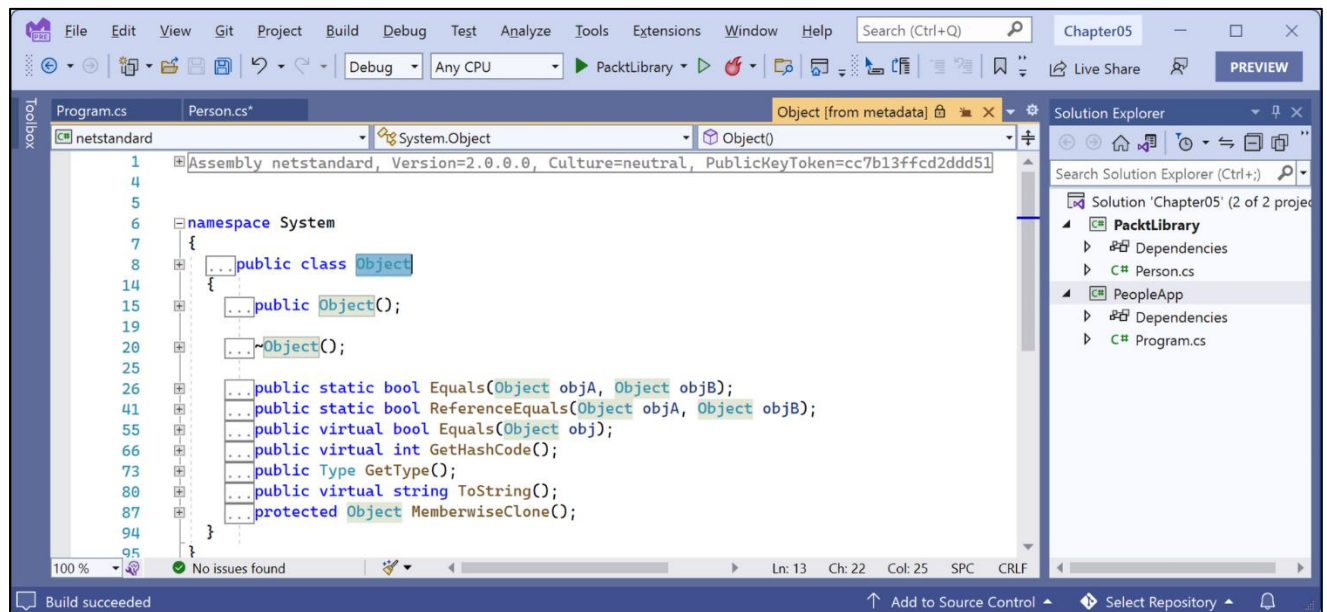


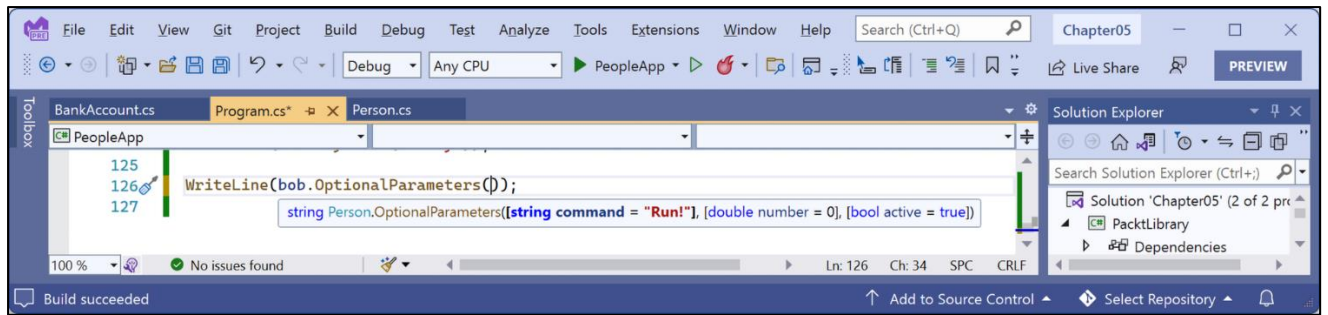




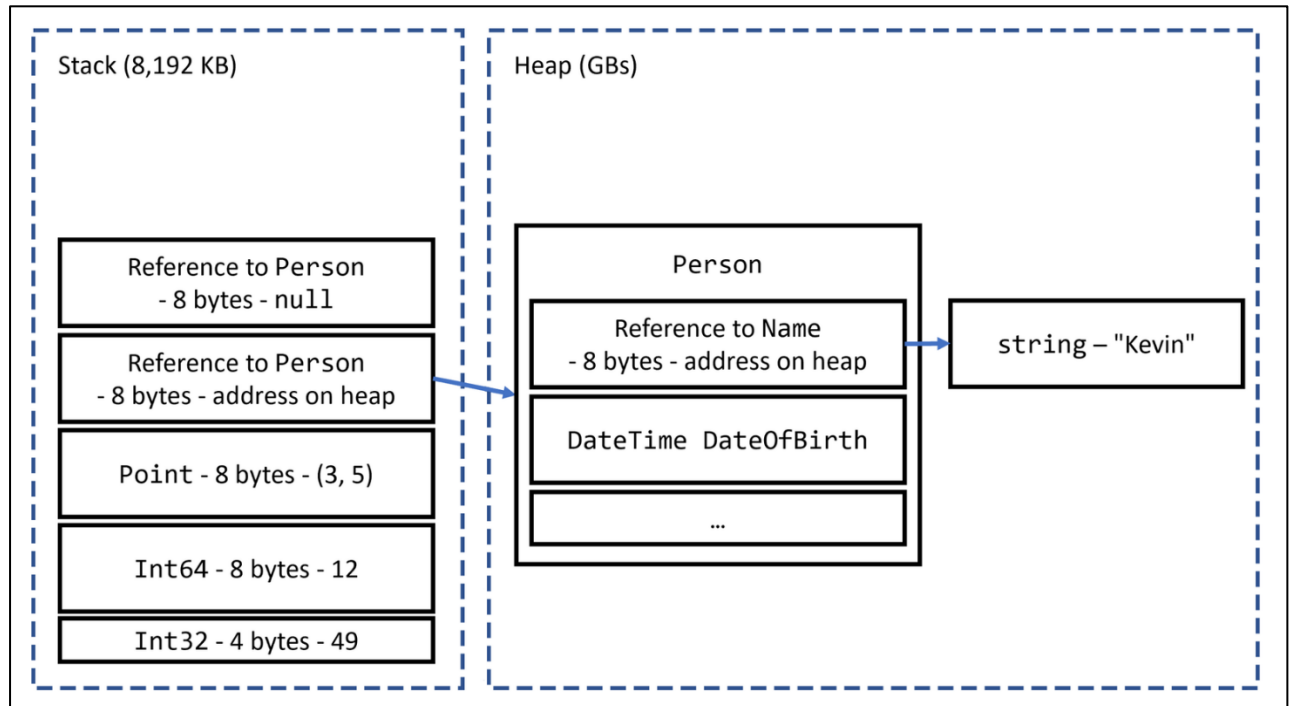


# Chapter 5: Building Your Own Types with Object-Oriented Programming





## Chapter 6: Implementing Interfaces and Inheriting Classes

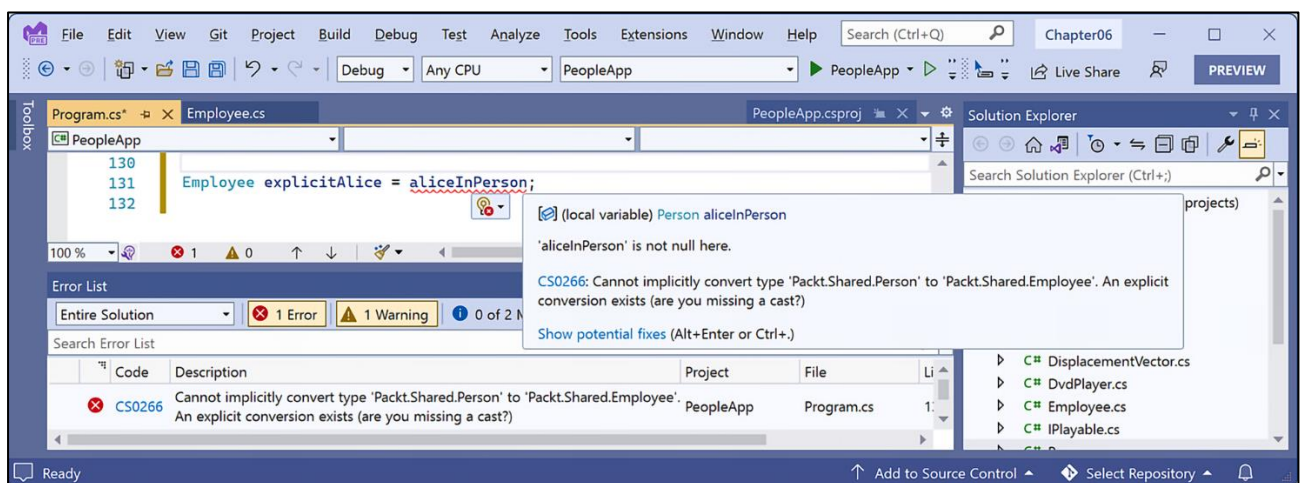
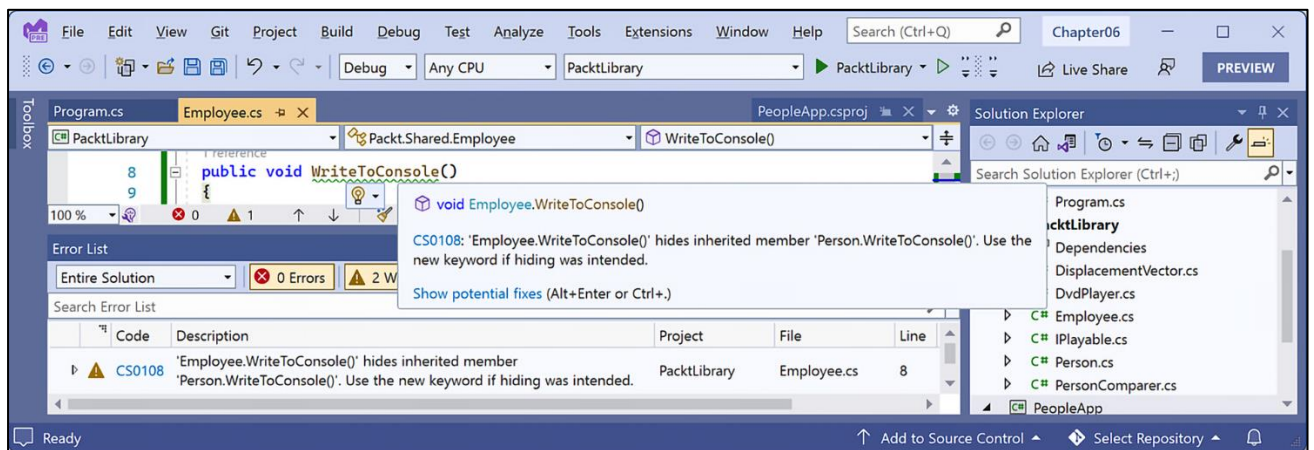
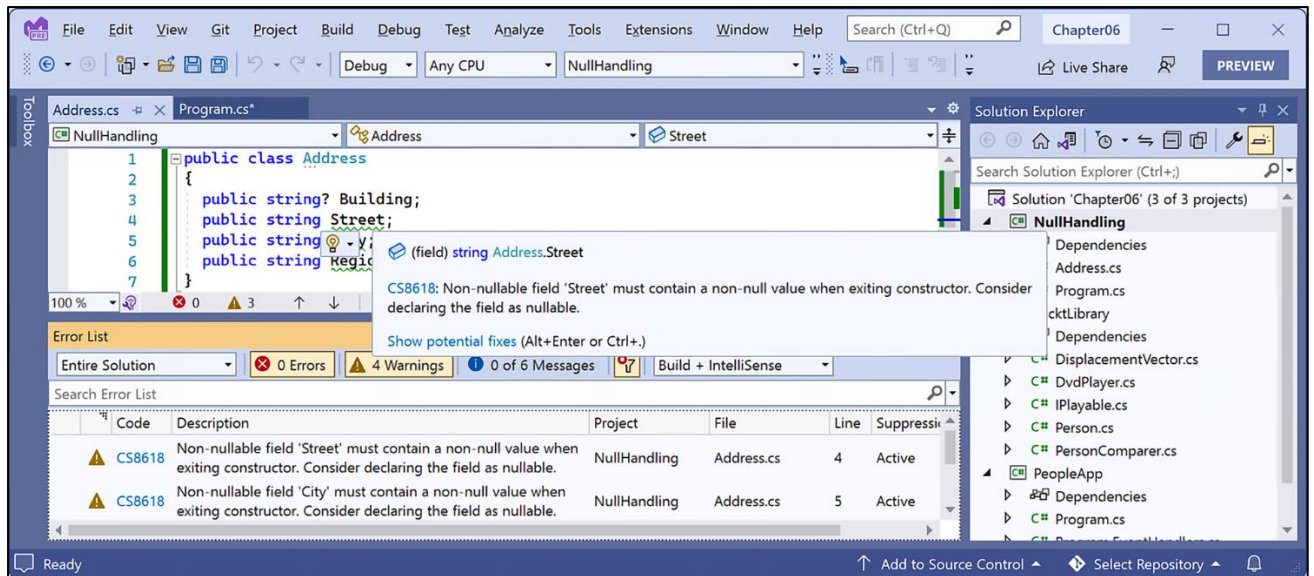


The screenshot shows the Visual Studio IDE with the `System.Nullable<T>` implementation in `Program.cs`. The code is as follows:

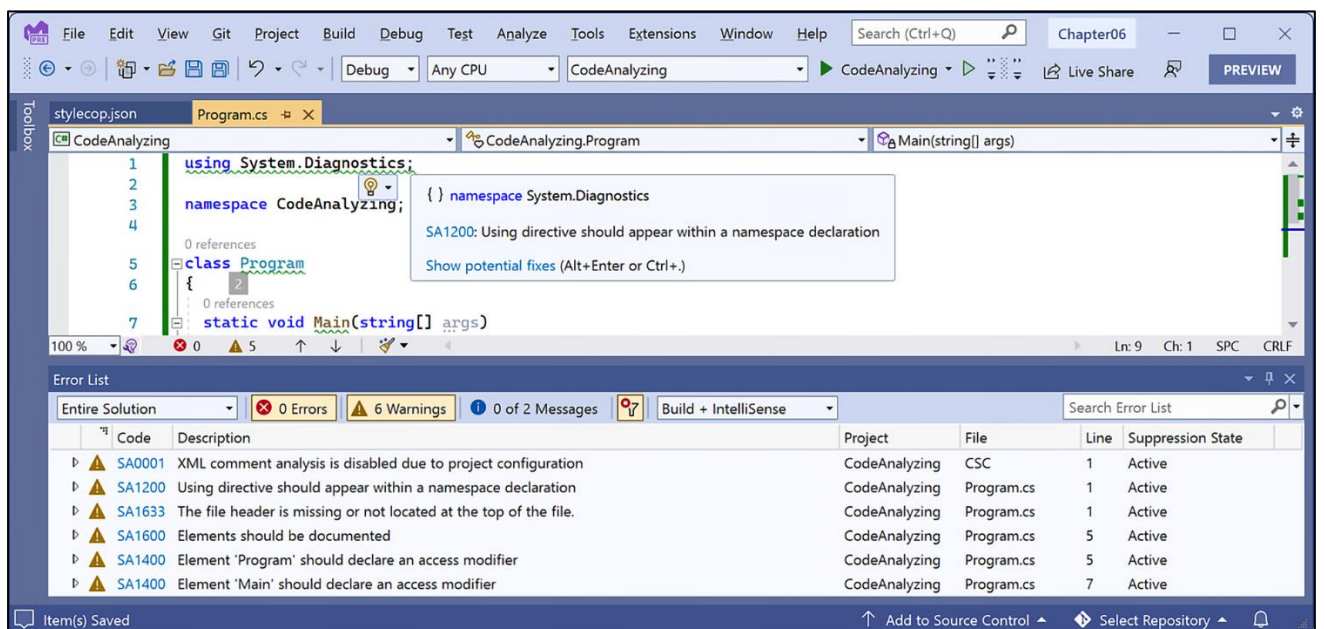
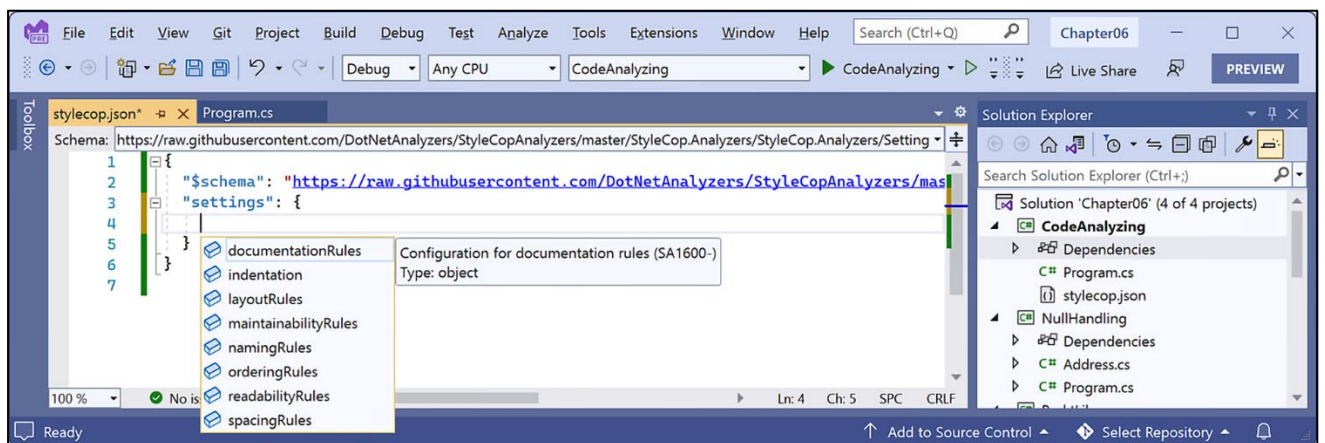
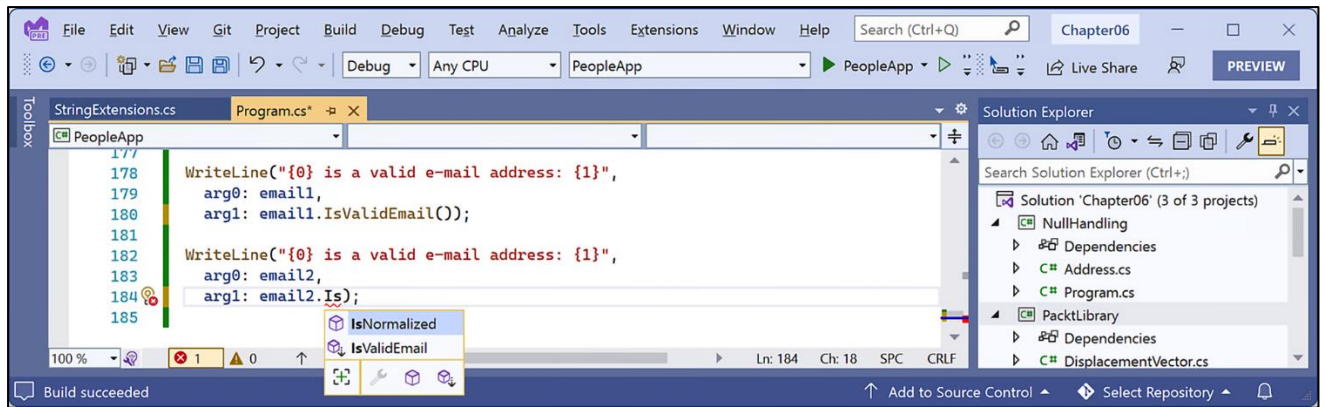
```
1  namespace System
2  {
3      ...public struct Nullable<T> where T : struct
4      {
5          private T value;
6          private int _dummyPrimitive;
7          ...public readonly bool HasValue...
8          ...public readonly T Value...
9          ...public Nullable(T value)...
10         ...public override bool Equals(Object? other)...
11         ...public override int GetHashCode()...
12         ...public readonly T GetValueOrDefault()...
13         ...public readonly T GetValueOrDefault(T defaultValue)...
14         public static explicit operator T(T? value)...
15         public static implicit operator T?(T value)...
16         ...public override string? ToString()...
17     }
18 }
```

The Solution Explorer on the right shows the project structure for 'Chapter06' (3 of 3 projects):

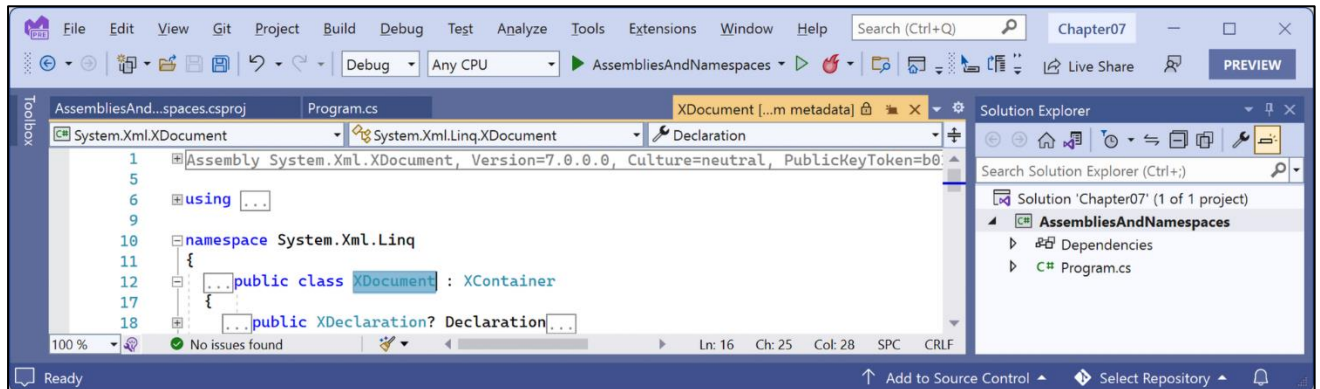
- NullHandling
  - Dependencies
  - Program.cs
- PacktLibrary
  - Dependencies
  - DisplacementVector.cs
  - DvdPlayer.cs
  - IPlayable.cs
  - Person.cs
  - PersonComparer.cs
- PeopleApp
  - Dependencies
  - Program.cs
  - Program.EventHandlers.cs
  - Program.Helpers.cs







## Chapter 7: Packaging and Distributing .NET Types



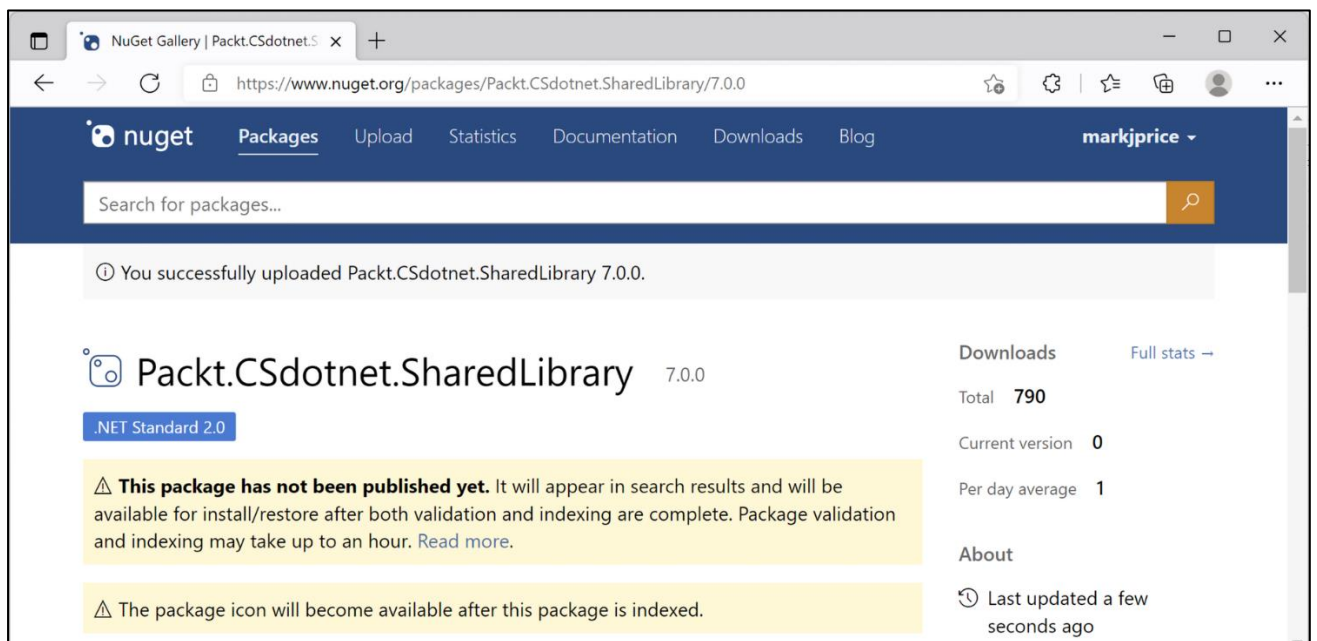
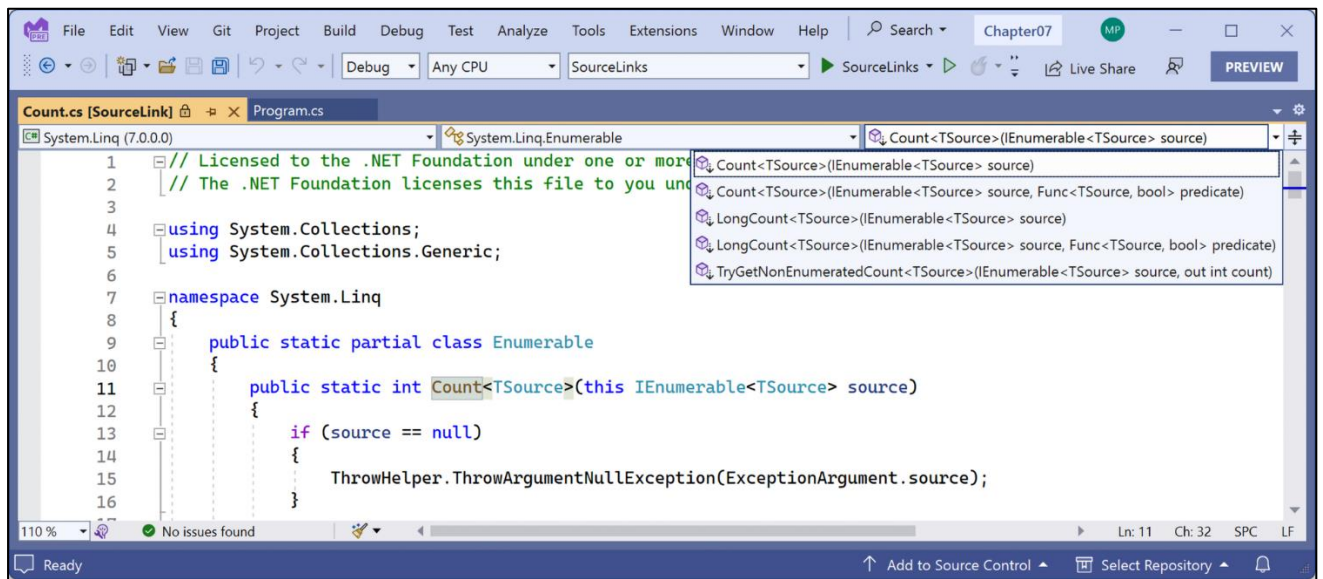
Windows PowerShell

```
PS C:\Users\markj> dotnet new -l
```

Template Name	Short Name	Language	Tags
Console Application	console	[C#], F#, VB	Common/Console
Class Library	classlib	[C#], F#, VB	Common/Library
WPF Application	wpf	[C#], VB	Common/WPF
WPF Class Library	wpflib	[C#], VB	Common/WPF
WPF Custom Control Library	wpfcustomcontrollib	[C#], VB	Common/WPF
WPF User Control Library	wpfusercontrollib	[C#], VB	Common/WPF
Windows Forms App	winforms	[C#], VB	Common/WinForms
Windows Forms Control Library	winformscontrollib	[C#], VB	Common/WinForms
Windows Forms Class Library	winformslib	[C#], VB	Common/WinForms
Worker Service	worker	[C#], F#	Common/Worker/Web
MSTest Test Project	mstest	[C#], F#, VB	Test/MSTest
NUnit 3 Test Item	nunit-test	[C#], F#, VB	Test/NUnit
NUnit 3 Test Project	nunit	[C#], F#, VB	Test/NUnit
xUnit Test Project	xunit	[C#], F#, VB	Test/xUnit
Razor Component	razorcomponent	[C#]	Web/ASP.NET
Razor Page	page	[C#]	Web/ASP.NET
MVC ViewImports	viewimports	[C#]	Web/ASP.NET
MVC ViewStart	viewstart	[C#]	Web/ASP.NET
Blazor Server App	blazorserver	[C#]	Web/Blazor
Blazor WebAssembly App	blazorwasm	[C#]	Web/Blazor/WebAssembly
ASP.NET Core Empty	web	[C#], F#	Web/Empty
ASP.NET Core Web App (Model-View-Controller)	mvc	[C#], F#	Web/MVC
ASP.NET Core Web App	webapp	[C#]	Web/MVC/Razor Pages
ASP.NET Core with Angular	angular	[C#]	Web/MVC/SPA
ASP.NET Core with React.js	react	[C#]	Web/MVC/SPA
ASP.NET Core with React.js and Redux	reactredux	[C#]	Web/MVC/SPA
Razor Class Library	razorclasslib	[C#]	Web/Razor/Library
ASP.NET Core Web API	webapi	[C#], F#	Web/WebAPI
ASP.NET Core gRPC Service	grpc	[C#]	Web/gRPC
dotnet gitignore file	gitignore		Config
global.json file	globaljson		Config
NuGet Config	nugetconfig		Config
Dotnet local tool manifest file	tool-manifest		Config
Web Config	webconfig		Config
Solution File	sln		Solution
Protocol Buffer File	proto		Web/gRPC










NuGet Gallery | Packt.CSdotnet.SharedLibrary 7.0.0

https://www.nuget.org/packages/Packt.CSdotnet.SharedLibrary/7.0.0

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.NET Standard 2.0

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Per day average **1**

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https://nuget.info/packages/Packt.CSdotnet.SharedLibrary/7.0.0

File

**Metadata** Dependencies




Id: Packt.CSdotnet.SharedLibrary

Version: 7.0.0

**Digital Signatures**

Repository: NuGet.org Repository by Microsoft  
@ Monday, 28 February 2022 19:36:03  
by Symantec SHA256 TimeStamping Sig  
Owners: markjprice  
Service Index: <https://api.nuget.org/v3/>

**Health**

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**Contents**

- lib
  - netstandard2.0
    - SharedLibrary.dll**
    - packt-csdotnet-sharedlibrary.png

**SharedLibrary.dll**

Size: 5.0 KB

**Assembly Attributes** PDB Info PDB Metadata References PDB Sources

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**Strong Name:** No

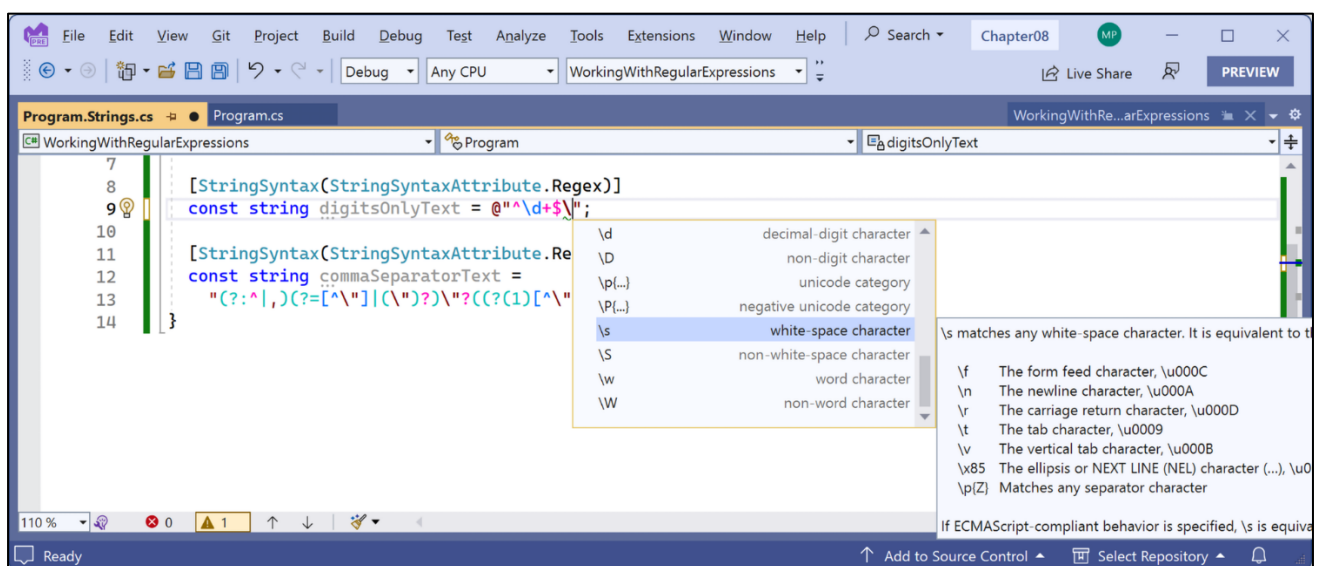
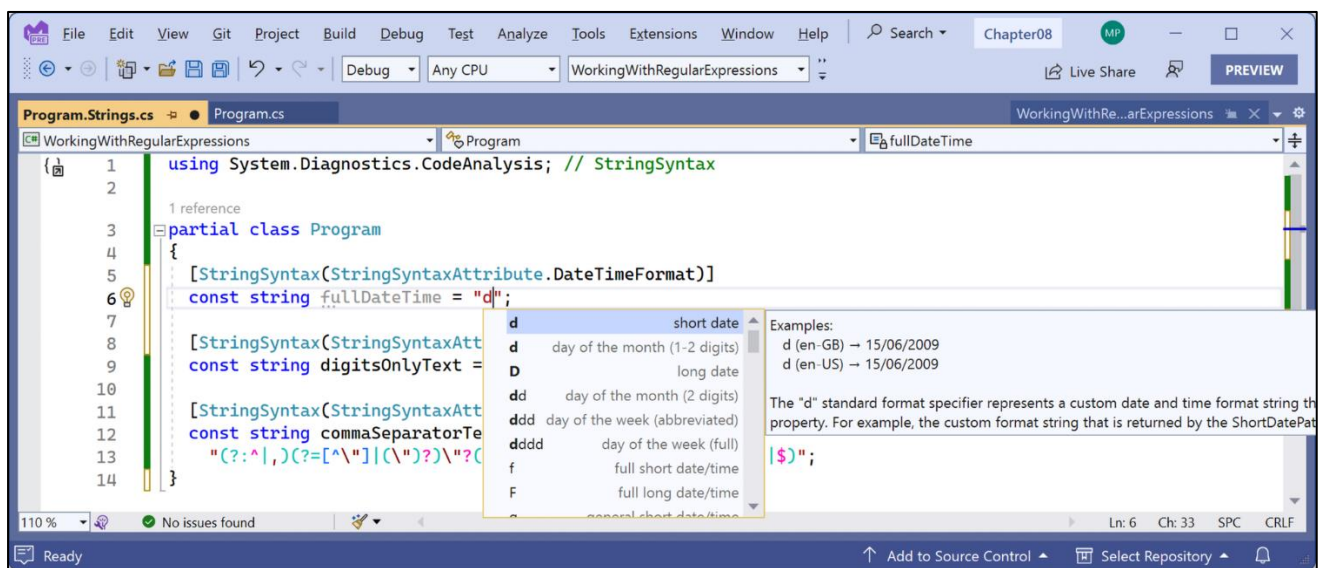
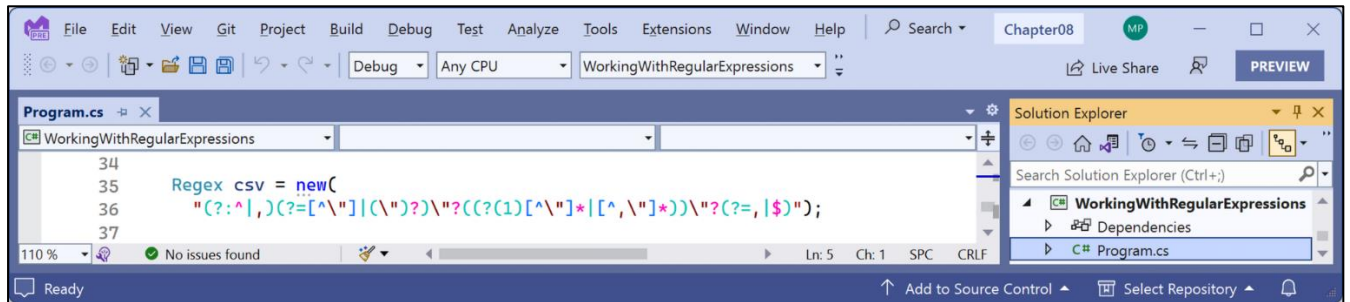
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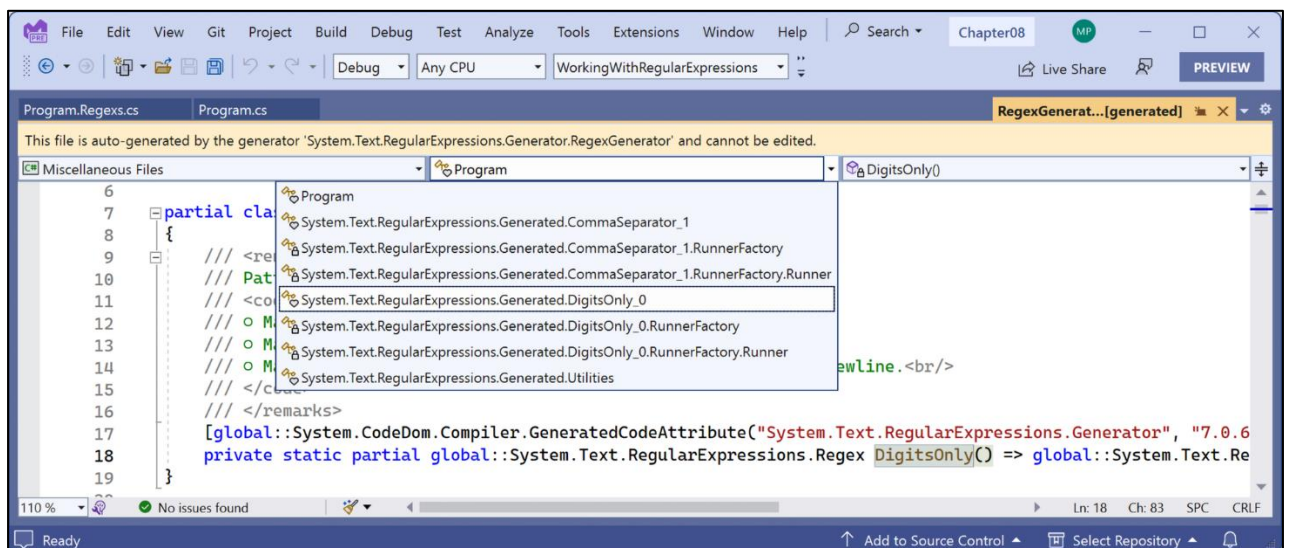
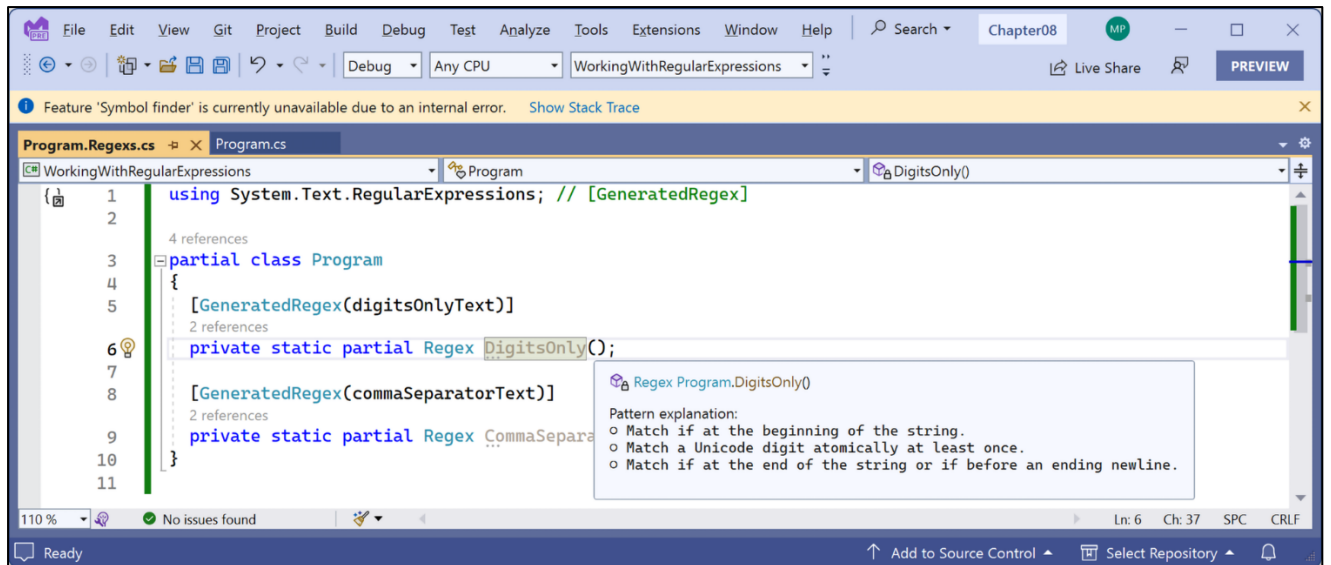
**AssemblyConfiguration:** Release

**AssemblyCopyright:**

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## Chapter 8: Working with Common .NET Types





# Chapter 9: Working with Files, Streams, and Serialization

```
Microsoft Visual Studio Debug
*
* Handling cross-platform environments and filesystems
*
Path.PathSeparator           ;
Path.DirectorySeparatorChar  \
Directory.GetCurrentDirectory() C:\cs11dotnet7\Chapter09\WorkingWithFileSystems\bin\Debug\net7.0
Environment.CurrentDirectory C:\cs11dotnet7\Chapter09\WorkingWithFileSystems\bin\Debug\net7.0
Environment.SystemDirectory  C:\WINDOWS\system32
Path.GetTempPath()           C:\Users\markj\AppData\Local\Temp\
GetFolderPath(SpecialFolder
    .System)                 C:\WINDOWS\system32
    .ApplicationData)        C:\Users\markj\AppData\Roaming
    .MyDocuments)            C:\Users\markj\OneDrive\Documents
    .Personal)               C:\Users\markj\OneDrive\Documents
```

```
Microsoft Visual Studio Debug
*
* Managing drives
*
NAME | TYPE | FORMAT | SIZE (BYTES) | FREE SPACE
C:\ | Fixed | NTFS | 510,924,943,360 | 272,425,426,944
```

C:\cs11dotnet7\Chapter09\WorkingWithTarArchives\bin\Debug\net7.0\images-archive.tar\images\

File Edit View Favorites Tools Help


Add Extract Test Copy Move Delete Info

Name	Size	Packed Size	Modified	Created	Accessed	Mode	Characteristics	Comment
category1.jpeg	1 675 696	1 675 776	2021-03-13 17:33	2022-09-19 09:42	2022-09-19 09:42	-rwxr-xr-x	0 POSIX ASCII PAX mtime atime ctime pax_path	./PaxHeaders.13900/.
category2.jpeg	1 190 788	1 190 912	2021-03-13 17:33	2022-09-19 09:42	2022-09-19 09:42	-rwxr-xr-x	0 POSIX ASCII PAX mtime atime ctime pax_path	./PaxHeaders.13900/.
category3.jpeg	1 520 763	1 521 152	2021-03-13 17:33	2022-09-19 09:42	2022-09-19 09:42	-rwxr-xr-x	0 POSIX ASCII PAX mtime atime ctime pax_path	./PaxHeaders.13900/.
category4.jpeg	1 691 680	1 692 160	2021-03-13 17:33	2022-09-19 09:42	2022-09-19 09:42	-rwxr-xr-x	0 POSIX ASCII PAX mtime atime ctime pax_path	./PaxHeaders.13900/.
category5.jpeg	1 777 905	1 778 176	2021-03-13 17:33	2022-09-19 09:42	2022-09-19 09:42	-rwxr-xr-x	0 POSIX ASCII PAX mtime atime ctime pax_path	./PaxHeaders.13900/.
category6.jpeg	1 942 233	1 942 528	2021-03-13 17:33	2022-09-19 09:42	2022-09-19 09:42	-rwxr-xr-x	0 POSIX ASCII PAX mtime atime ctime pax_path	./PaxHeaders.13900/.
category7.jpeg	2 082 204	2 082 304	2021-03-13 17:33	2022-09-19 09:42	2022-09-19 09:42	-rwxr-xr-x	0 POSIX ASCII PAX mtime atime ctime pax_path	./PaxHeaders.13900/.
category8.jpeg	1 670 600	1 670 656	2021-03-13 17:33	2022-09-19 09:42	2022-09-19 09:42	-rwxr-xr-x	0 POSIX ASCII PAX mtime atime ctime pax_path	./PaxHeaders.13900/.

0 / 8 object(s) select

  
Home


  
Explore

  
Notifications

  
Messages

  
Bookmarks

← Thread



James Newton-King  
@JamesNK

Negative 2 billion downloads in NuGet Package Explorer 😄

cc @NuGetPE

Select Package

Search (Ctrl+E)

☐ Show pre-release packages

Newtonsoft.Json by James Newton-King, -2.1G downloads v13.0.2-beta1

Microsoft.Extensions.DependencyInjection by Microsoft, 1.4G dow v7.0.0-preview.7.22375.6

Package source: https://api.nuget.org/v3/index.json

Newtonsoft.Json

open download show all versions

Description

Json.NET is a popular high-performance JSON framework for .NET





JamesNK commented on 29 Oct 2018

Member

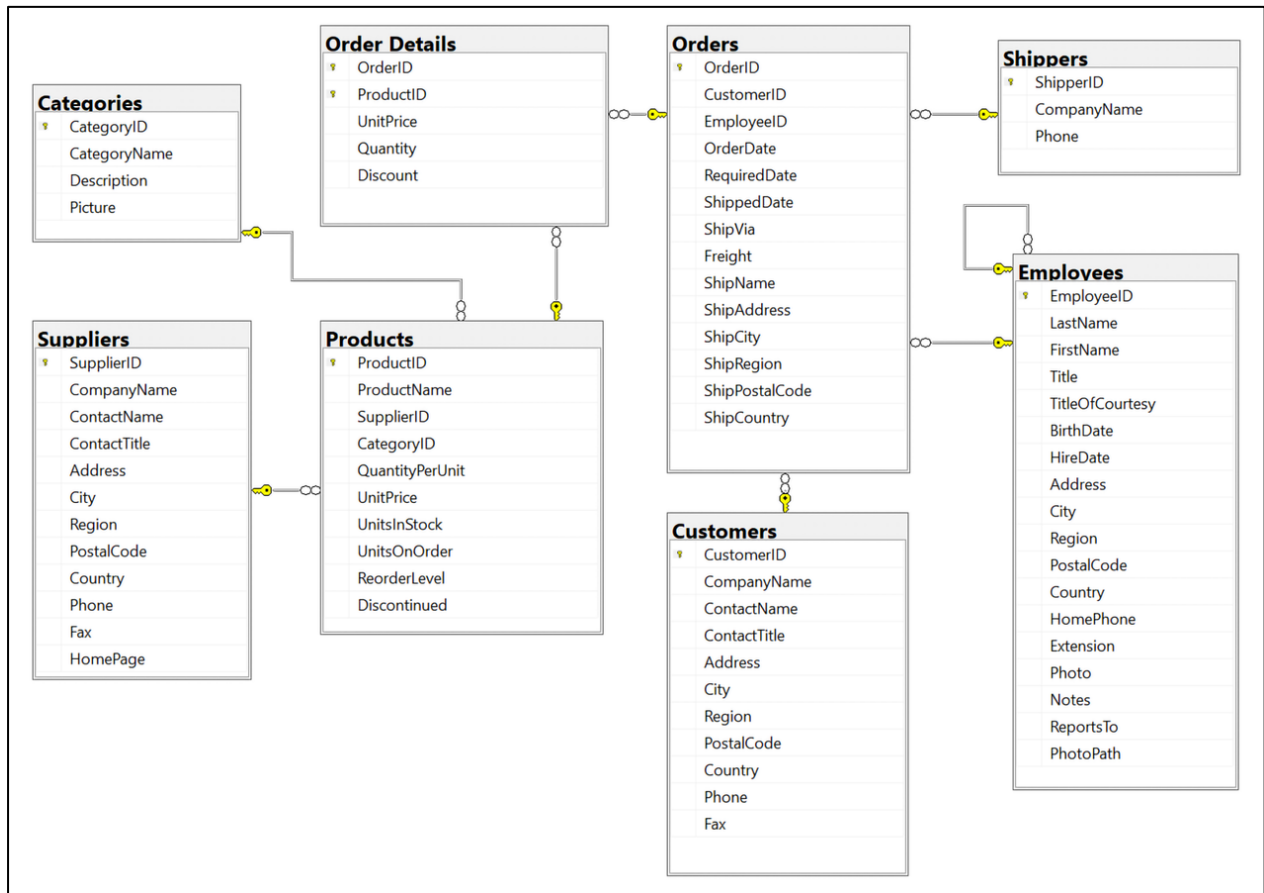


@Thorium Json.NET isn't going away. You aren't losing anything. This is another option for simple and high performance scenarios.



19

## Chapter 10: Working with Data Using Entity Framework Core

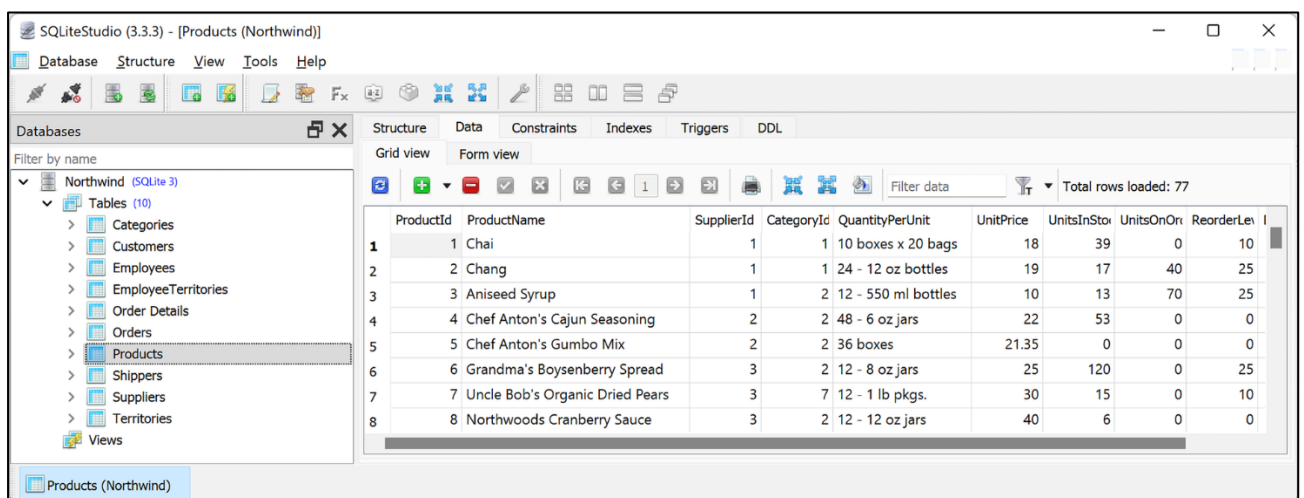
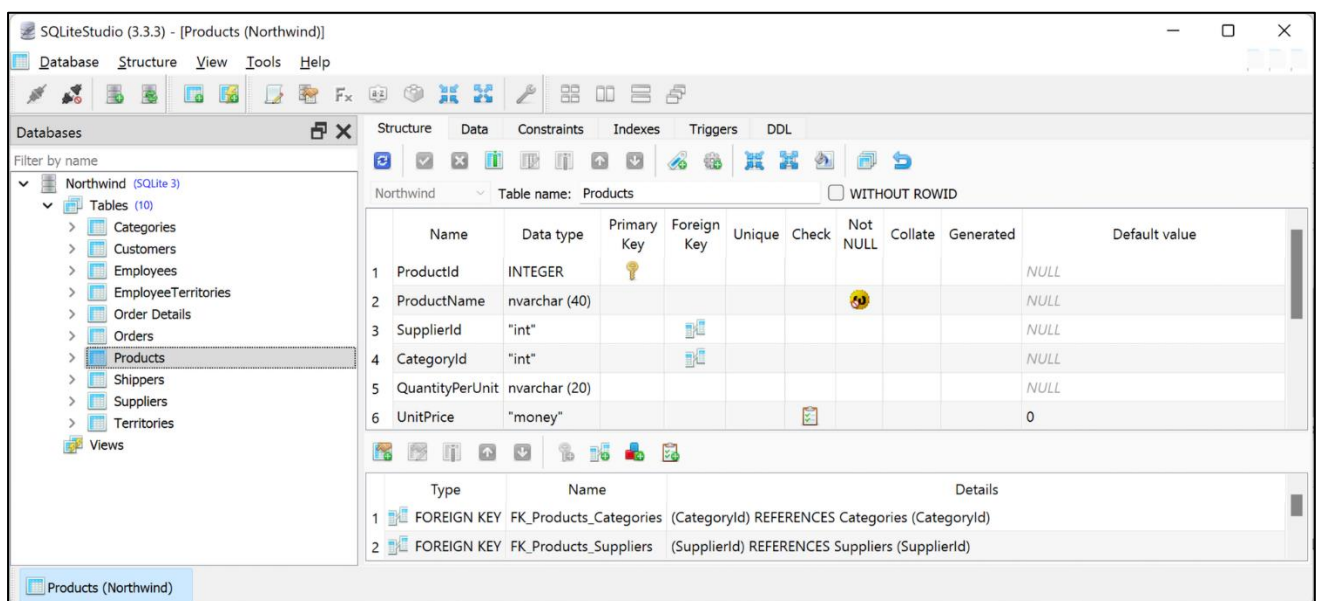
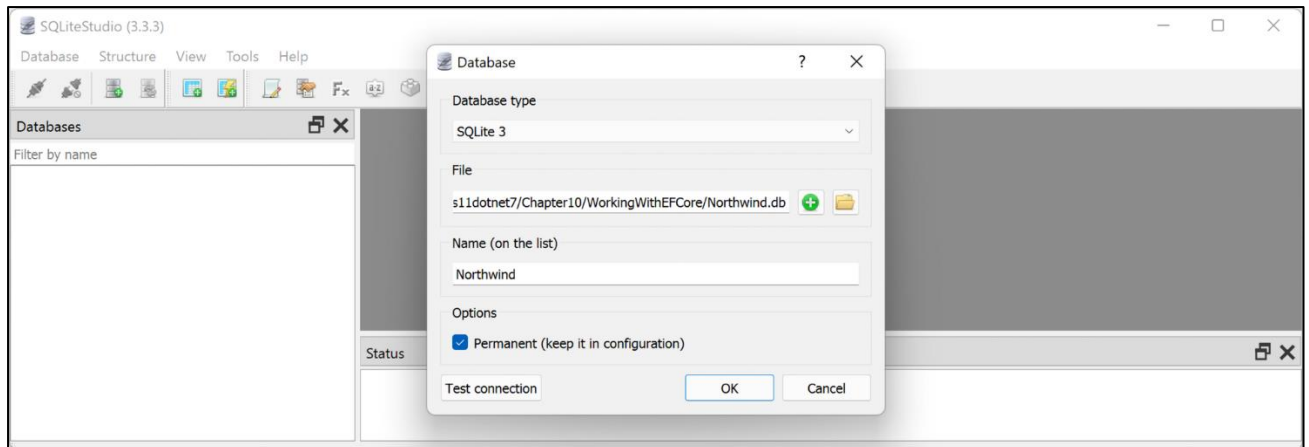


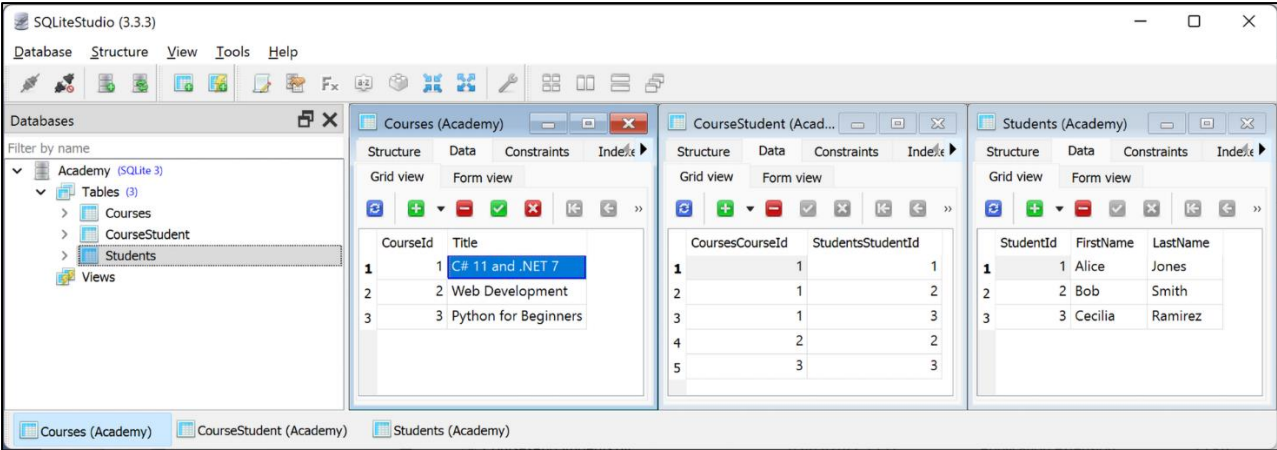
SQLite Download Page

https://www.sqlite.org/download.html

### Precompiled Binaries for Windows

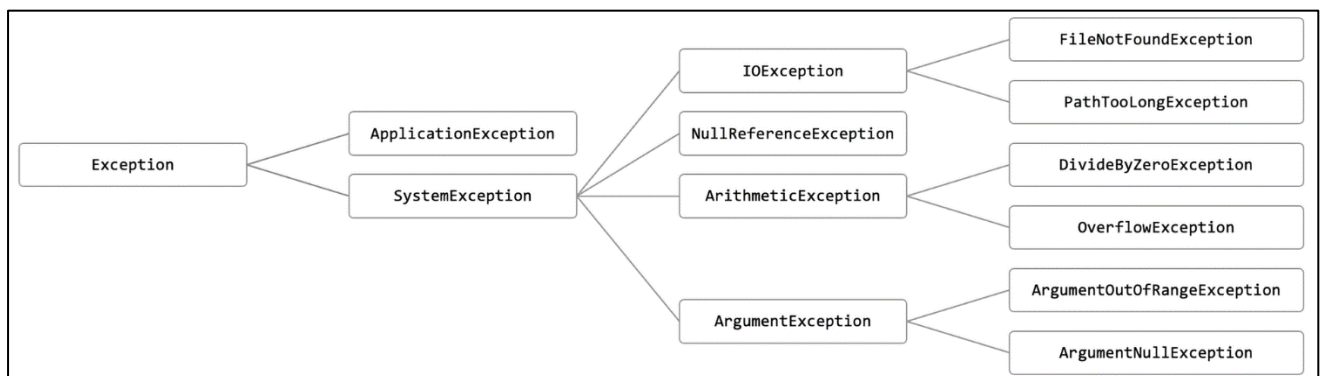
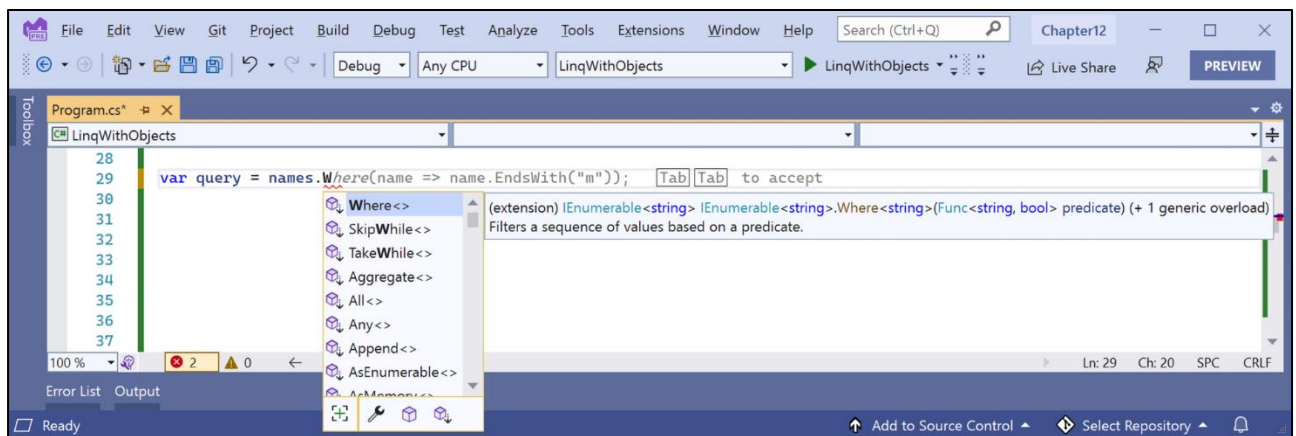
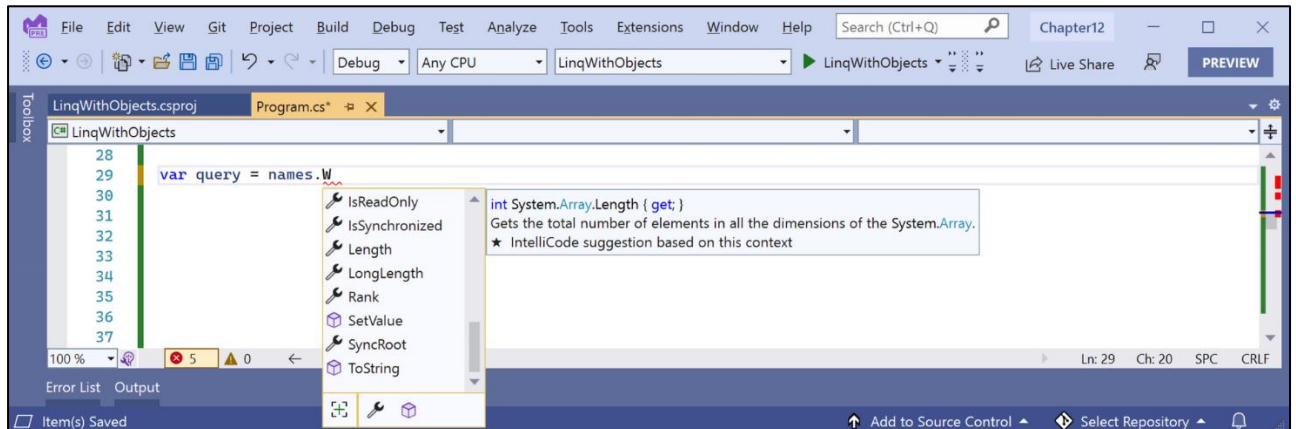
<a href="#">sqlite-dll-win32-x86-3380000.zip</a> (553.37 KiB)	32-bit DLL (x86) for SQLite version 3.38.0. (sha3: c19d707c1de9d30b2945605e08c51ea70993e583193dfab5dd85ced8877b3651)
<a href="#">sqlite-dll-win64-x64-3380000.zip</a> (895.32 KiB)	64-bit DLL (x64) for SQLite version 3.38.0. (sha3: 38768abff31145f90f38e04b004989c226b1456a5d72a82175104dbad010289c)
<a href="#">sqlite-tools-win32-x86-3380000.zip</a> (1.87 MiB)	A bundle of command-line tools for managing SQLite database files, including the <a href="#">command-line shell</a> program, the <a href="#">sqldiff.exe</a> program, and the <a href="#">sqlite3_analyzer.exe</a> program. (sha3: 968813d415a78867ef67b16f704033d770c5f4436b1a58156863793eb140a15d)

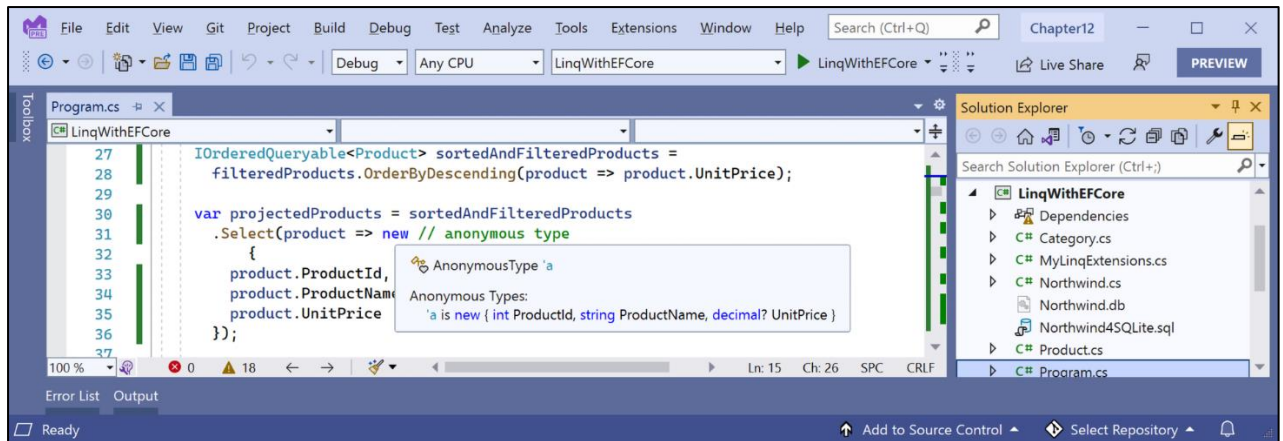







# Chapter 11: Querying and Manipulating Data Using LINQ







**Amichai Mantinband**  
@amantinband

Surprised by the number of wrong answers on the youtube poll! #dotnet twitter for the save?

```
IEnumerable<Task> tasks = Enumerable.Range(0, 2)
    .Select(_ => Task.Run(() => Console.WriteLine("")));

await Task.WhenAll(tasks);
Console.WriteLine($"{tasks.Count()} stars!");
```

**\*\*2 stars!**

\*\*2 stars!\*\*

\*\*\*\*2 stars!

Something else 👍👎

207 votes · Final results

3:39 PM · Aug 15, 2022 · Twitter Web App

49.3%


14.5%

15.9%

20.3%


←

**Amichai Mantinband**  
254 Tweets



**Amichai Mantinband**  
@amantinband


Software engineer @Microsoft | Dad | Amazing husband according to me | Average husband according to wife

[youtube.com/c/AmichaiManti...](https://youtube.com/c/AmichaiManti...)  Joined October 2021

401 Following

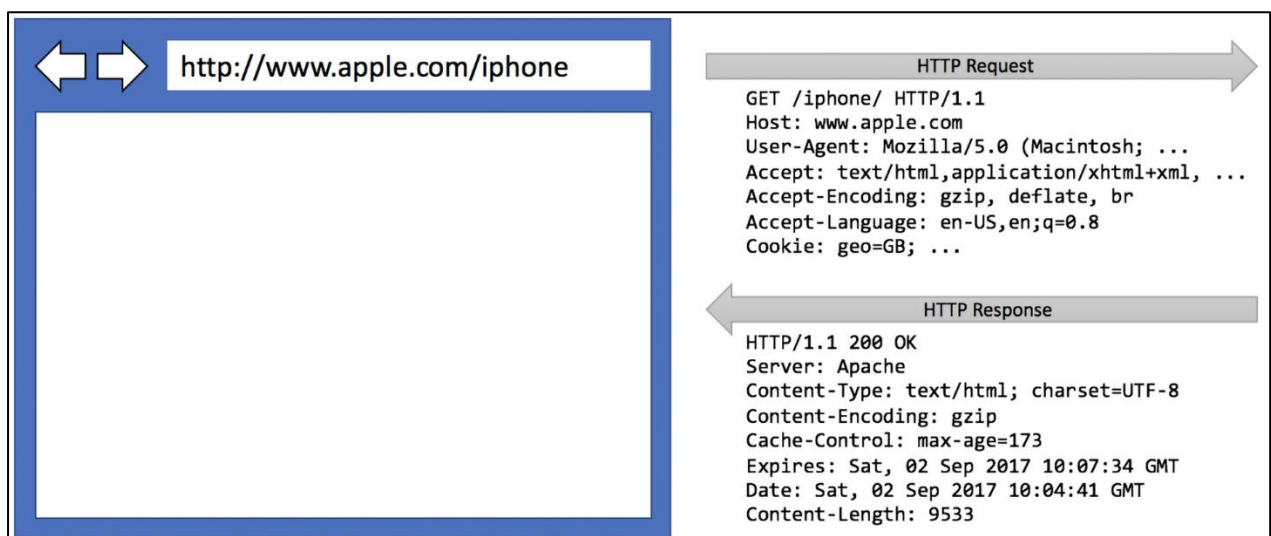
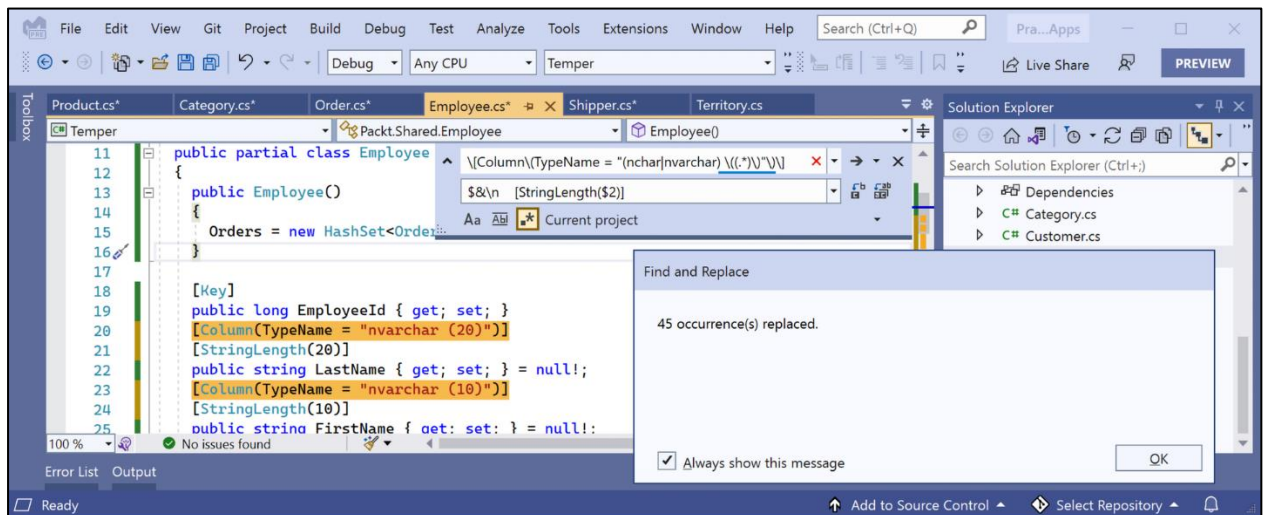
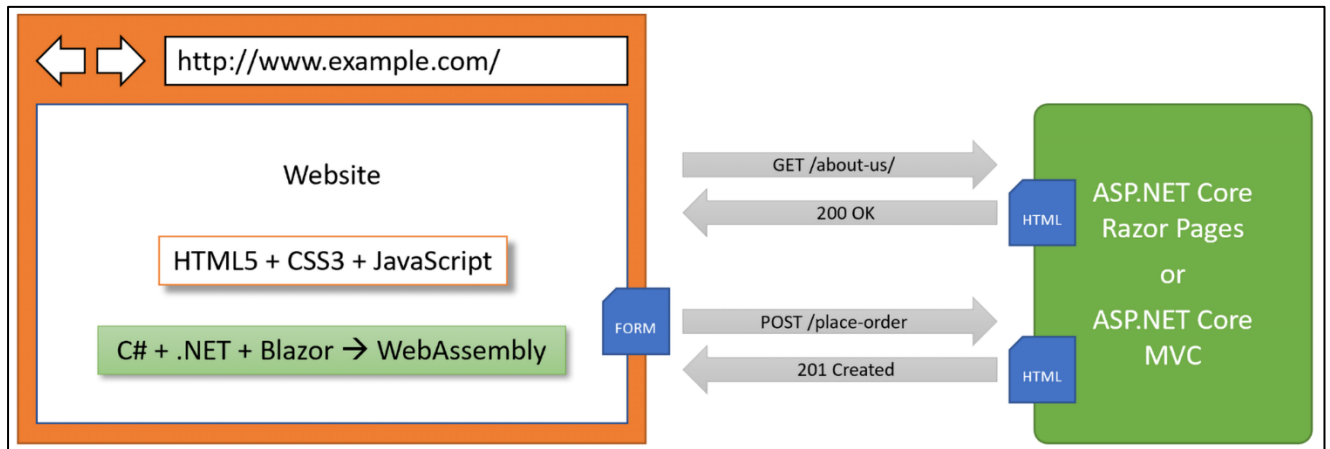
1,343 Followers

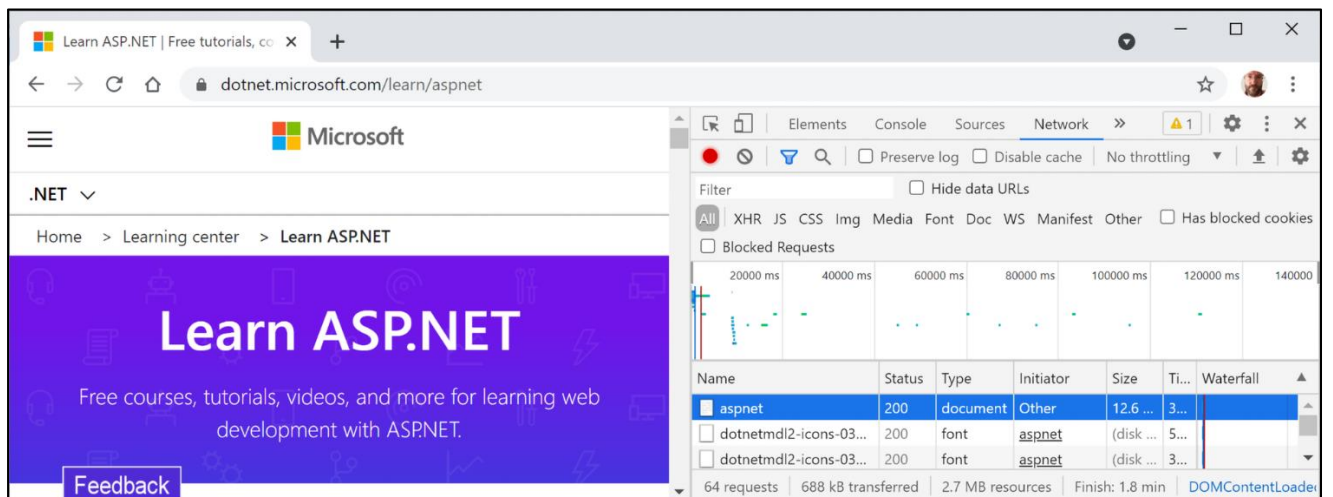
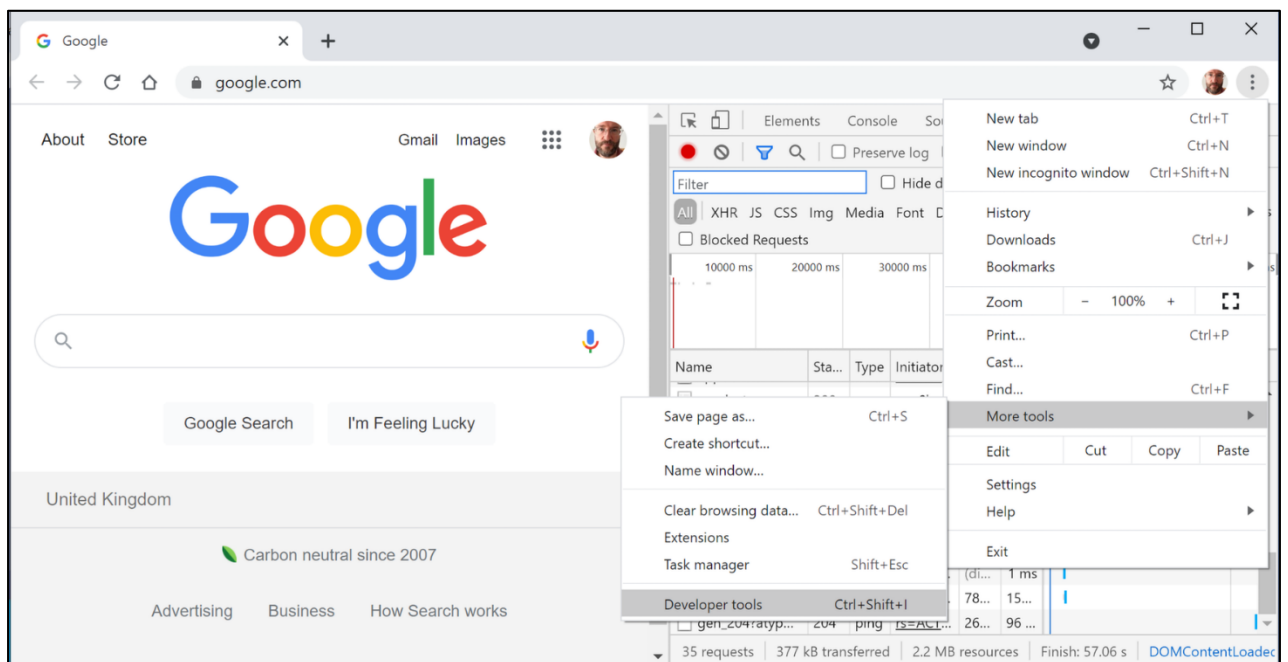
⋮



**Follow**

## Chapter 12: Introducing Web Development Using ASP.NET Core







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dotnet.microsoft.com/learn/aspnet

Microsoft

.NET

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# Learn ASP.NET

Free courses, tutorials, videos, and more for learning web development with ASP.NET.

## Popular learning materials

NET Core Series

What is ASP.NET?

Feedback

Elements Console Sources Network Performance Memory

Filter Hide data URLs All XHR JS CSS Img Media Font Doc WS Manifest Other

Has blocked cookies Blocked Requests

aspnet dotnetmdl2-icons-032021-2.v dotnetmdl2-icons-032021-2.t 2c-511e5e?ver=2.0&cf=2021 override.css?c=7 bootstrap-custom.min.css?v= cookie-consent.min.js?v=-1VL general.min.js?v=7G9KtUn8Ko google-analytics.min.js?v=IGit wcp-consent.js 17-f90ef1?ver=2.0&cf=2021 listen-post-message-iframe.m RE1Mu3b?ver=5c31 main.min.js?v=OOcqOBoXUU aspnet?domain=https://dotne analytics.js home-hero-bg.svg mwfmld2-v3.54.woff js?id=GTM-KPDDMV7&cid=2 collect?v=1&v=j90&a=1122

85 requests 692 kB transferred

General

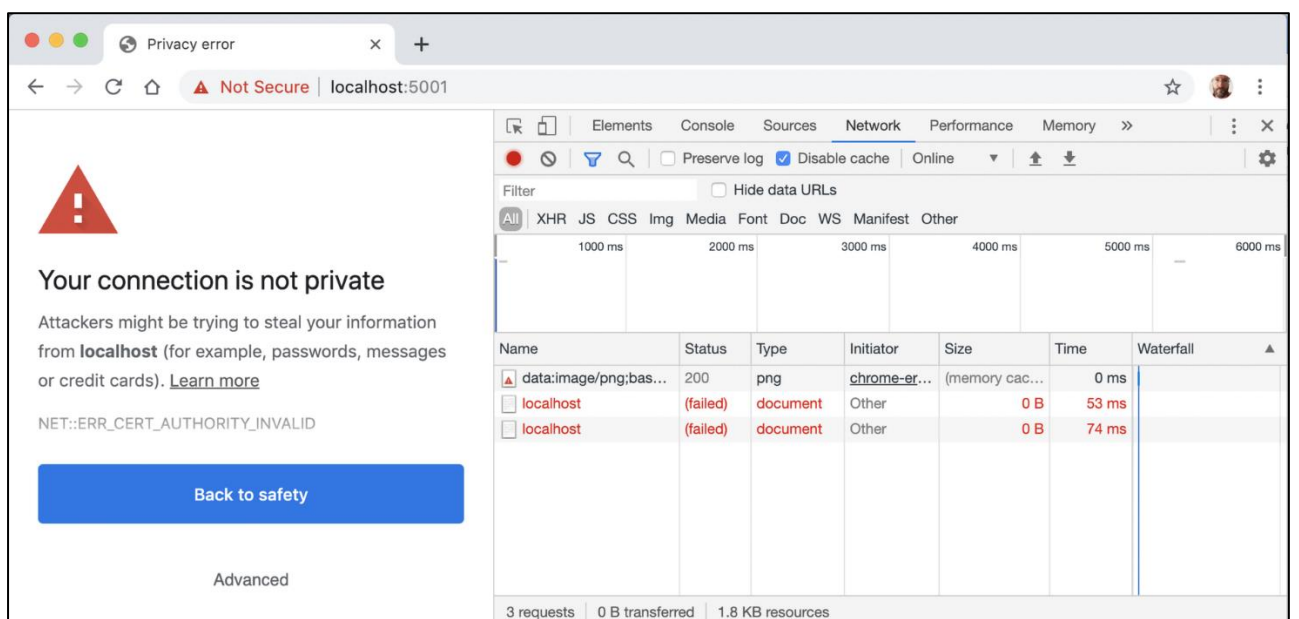
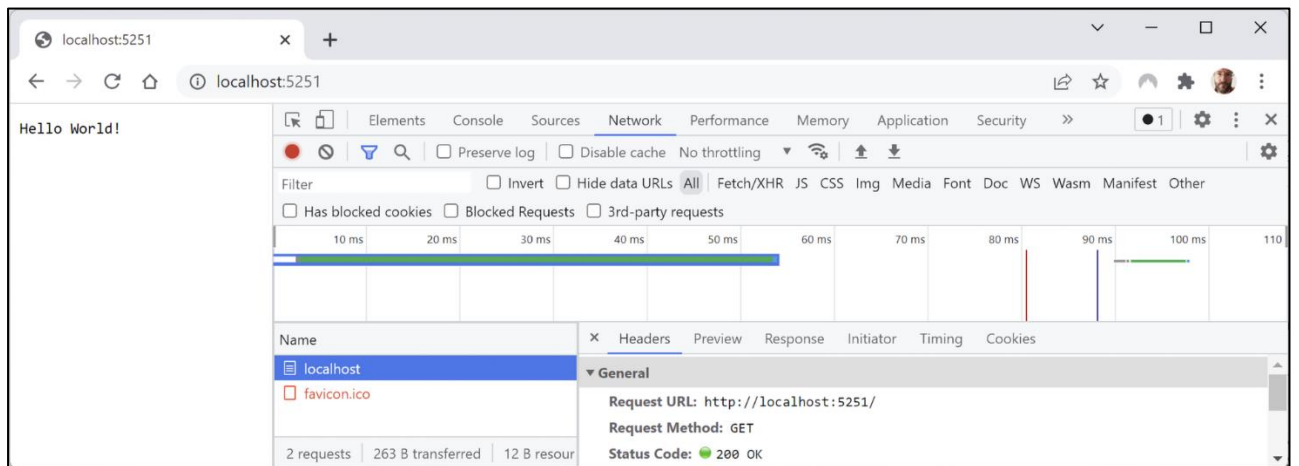
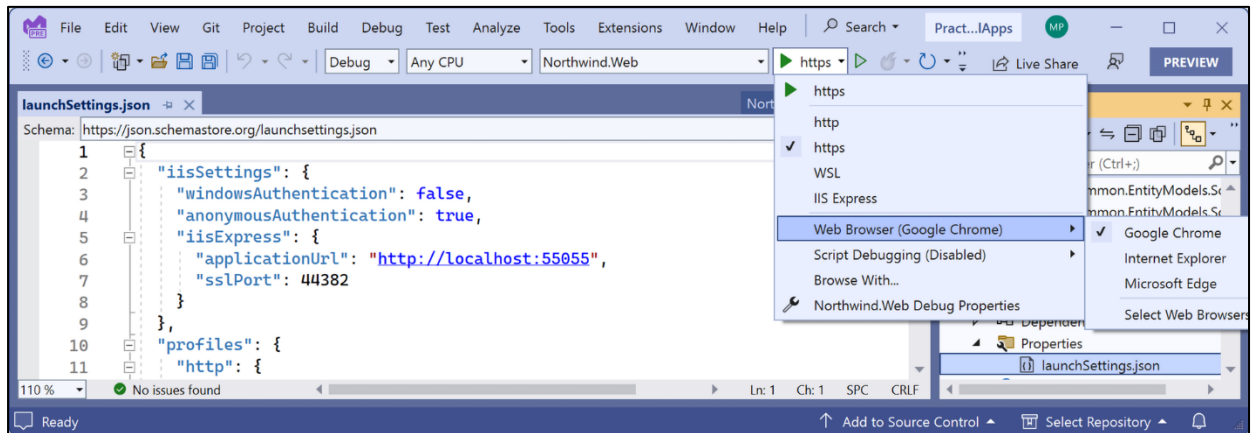
Request URL: https://dotnet.microsoft.com/learn/aspnet  
Request Method: GET  
Status Code: 200  
Remote Address: [2620:1ec:bdf::64]:443  
Referrer Policy: strict-origin-when-cross-origin

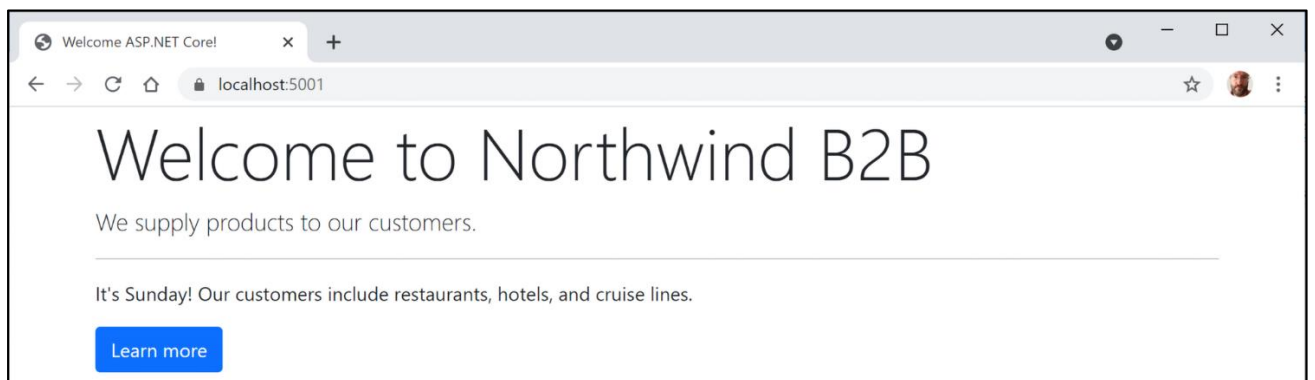
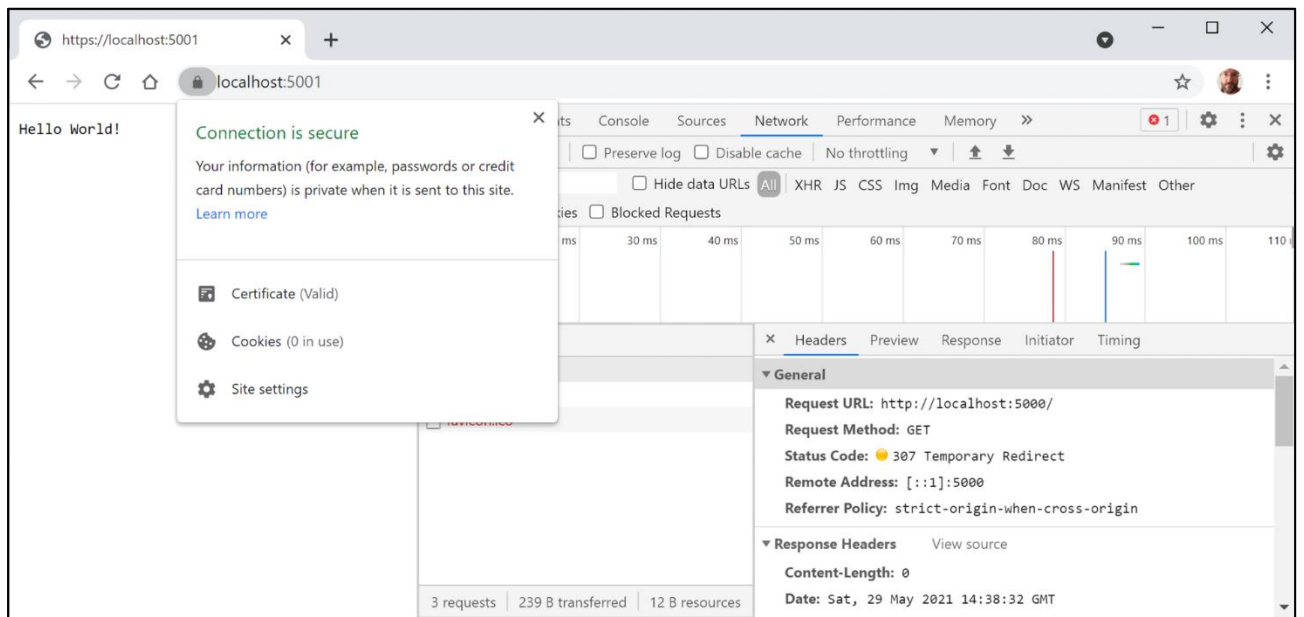
Response Headers (11)

Request Headers

:authority: dotnet.microsoft.com  
:method: GET  
:path: /learn/aspnet  
:scheme: https  
accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avi f,image/webp,image/apng,\*/\*;q=0.8,application/signed-exchange;v=b3;q= 0.9  
accept-encoding: gzip, deflate, br  
accept-language: en-US,en;q=0.9,sv;q=0.8  
cookie: MC1=GUID=54a83491596e42eb9d82baf90b40c0d4&HASH=54a8&LV=202104&V =4&LU=1617522068644; mbox=session#8a46d478da9c43a5845df1d0e4fe86a7#161 9507375|PC#8a46d478da9c43a5845df1d0e4fe86a7.37\_0#1653692607; ai\_user=V

# Chapter 13: Building Websites Using ASP.NET Core Razor Pages





Northwind B2B - Suppliers x +

localhost:5001/suppliers

# Suppliers

Company Name	Country	Phone
G'day, Mate	Australia	(02) 555-5914
Pavlova, Ltd.	Australia	(03) 444-2343
Refrescos Americanas LTDA	Brazil	(11) 555 4640
Forêts d'érables	Canada	(514) 555-2955

EXPLORER

OPEN EDITORS

PRACTICALAPPS (WORKSPACE)

NorthwindEntitiesLib

NorthwindContextLib

NorthwindWeb

NorthwindEmployees

Areas / MyFeature / Pages

Page1.cshtml

Page1.cshtml.cs

bin

obj

NorthwindEmployees.cs...

OUTLINE

ILSPY DECOMPILED MEMBERS

Compact Folders enabled

PROBLEMS 1

OUTPUT

DEBUG CONSOLE

NorthwindEmployees -> /Users/markjpri...

es.Views.dll

Build succeeded.

0 Warning(s)

0 Error(s)

Time Elapsed 00:00:04.46

Marks-MacBook-Pro-13:NorthwindEmployees

EXPLORER

OPEN EDITORS

PRACTICALAPPS (WORKSPACE)

NorthwindEntitiesLib

NorthwindContextLib

NorthwindWeb

NorthwindEmployees

Areas

MyFeature

Pages

Page1.cshtml

Page1.cshtml.cs

bin

obj

OUTLINE

ILSPY DECOMPILED MEMBERS

Compact Folders disabled

Code File Edit Selection View Go Debug Terminal Window Help

Settings

compact 1 Setting Found

User

Features (1)

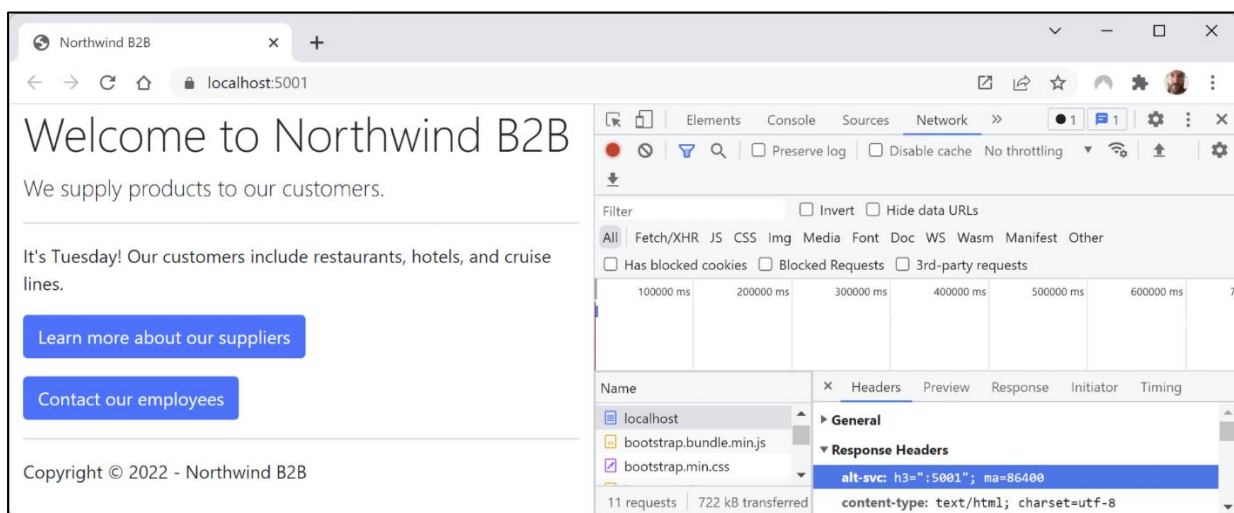
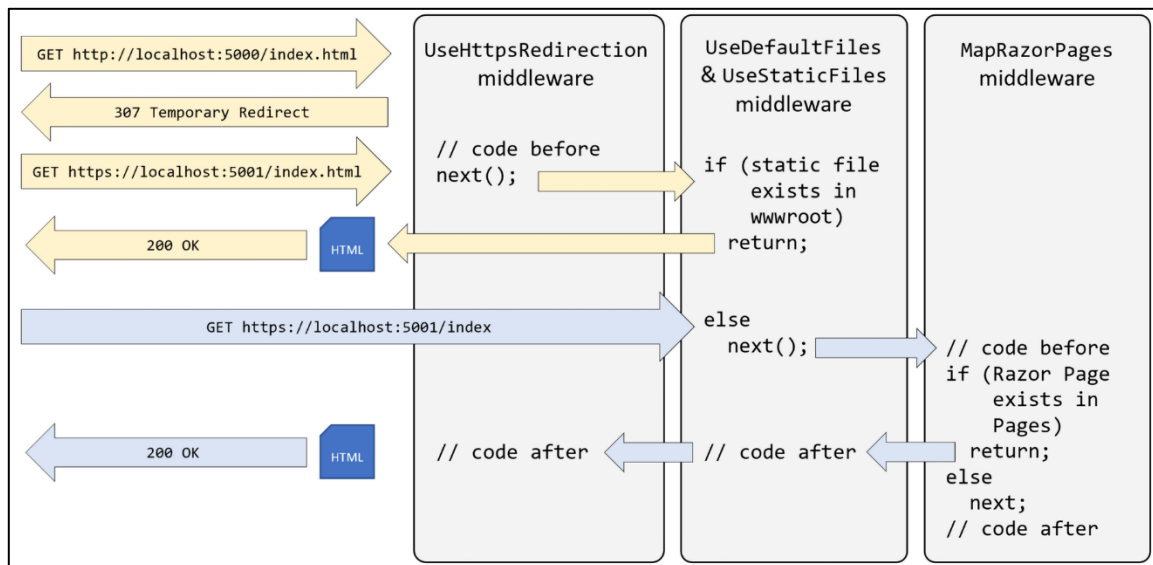
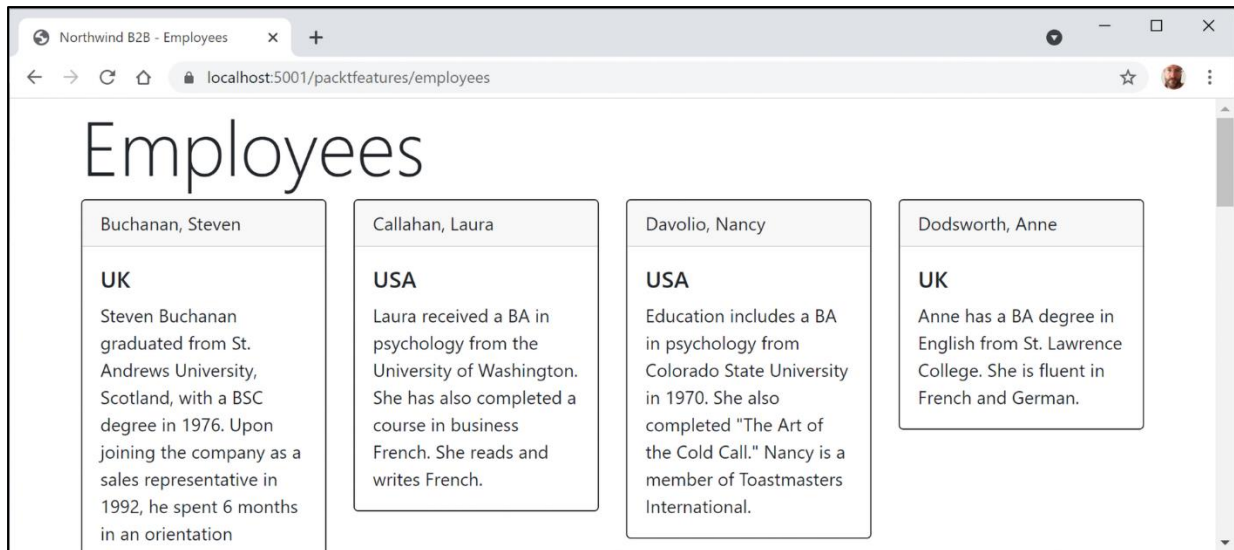
Explorer (1)

Explorer: Compact Folders

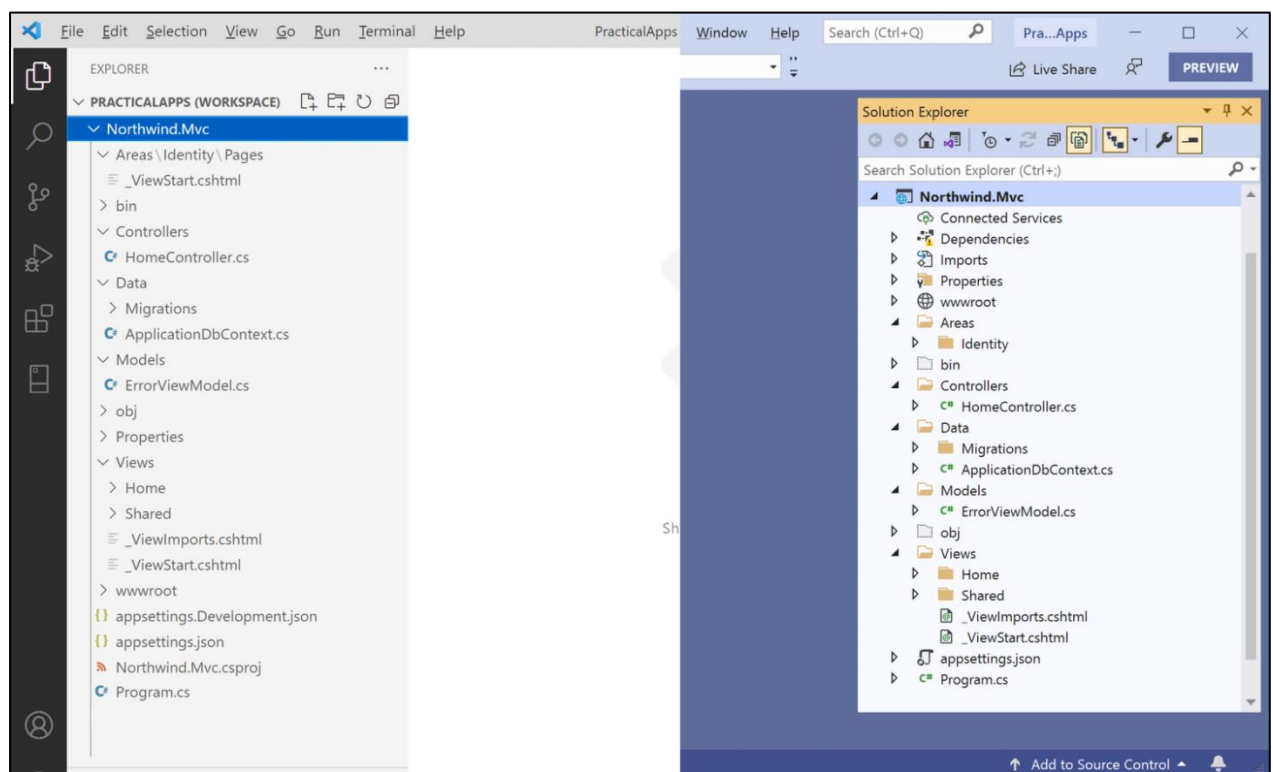
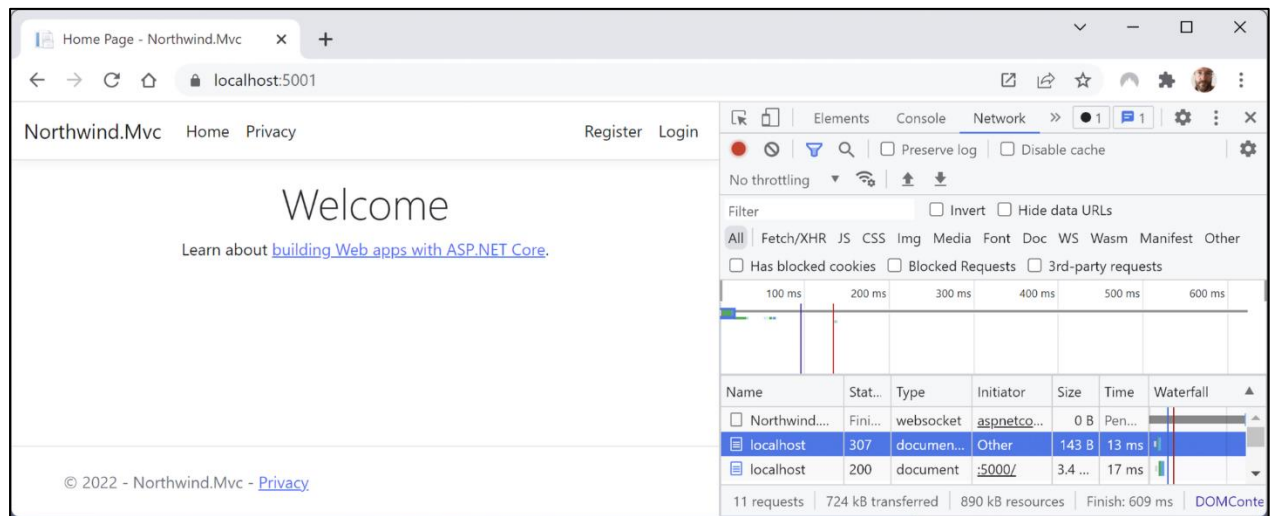
☐ Controls whether the explorer should render folders in a compact form. In such a form, single child folders will be compressed in a combined tree element. Useful for Java package structures, for example.

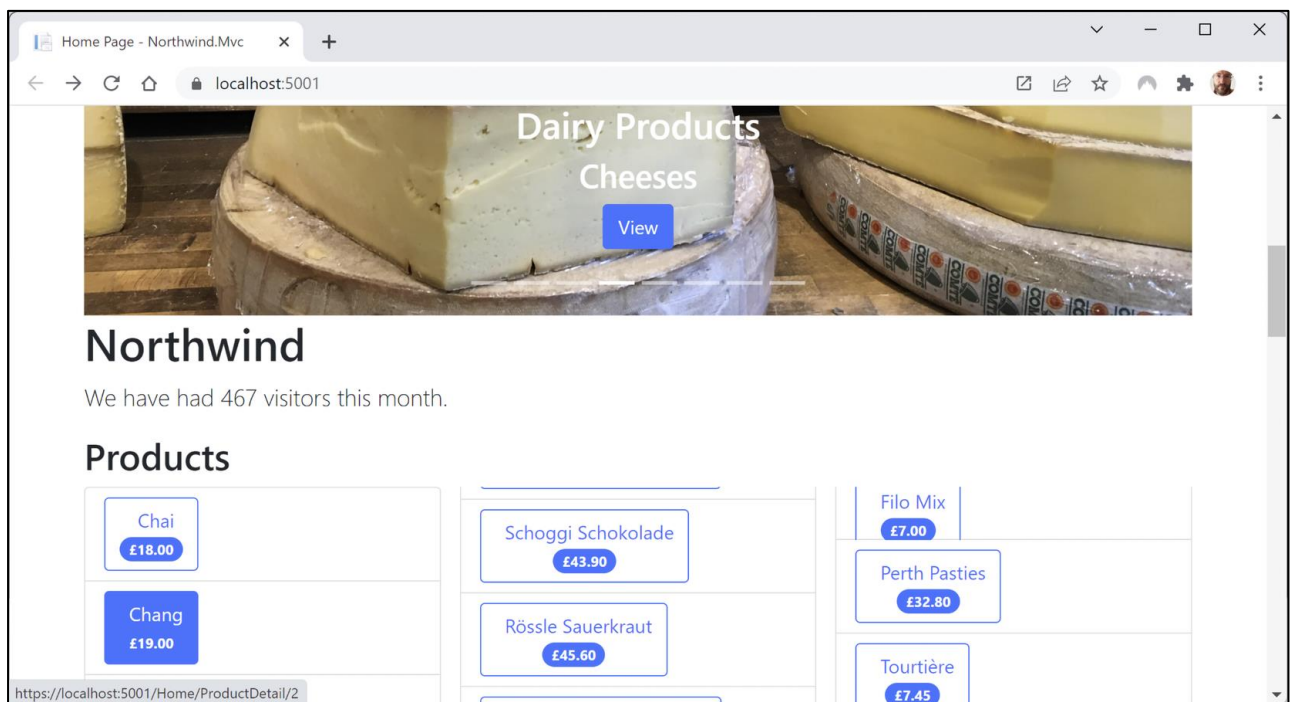
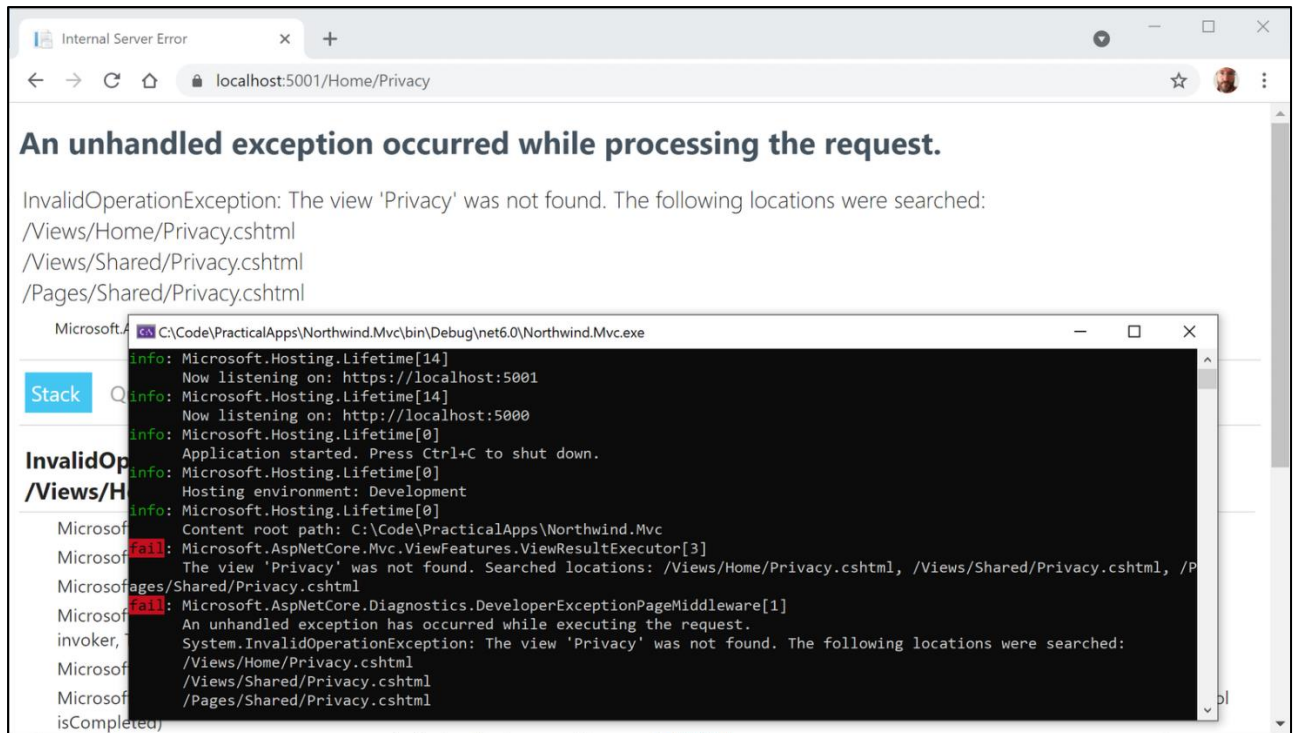
Show matching extensions

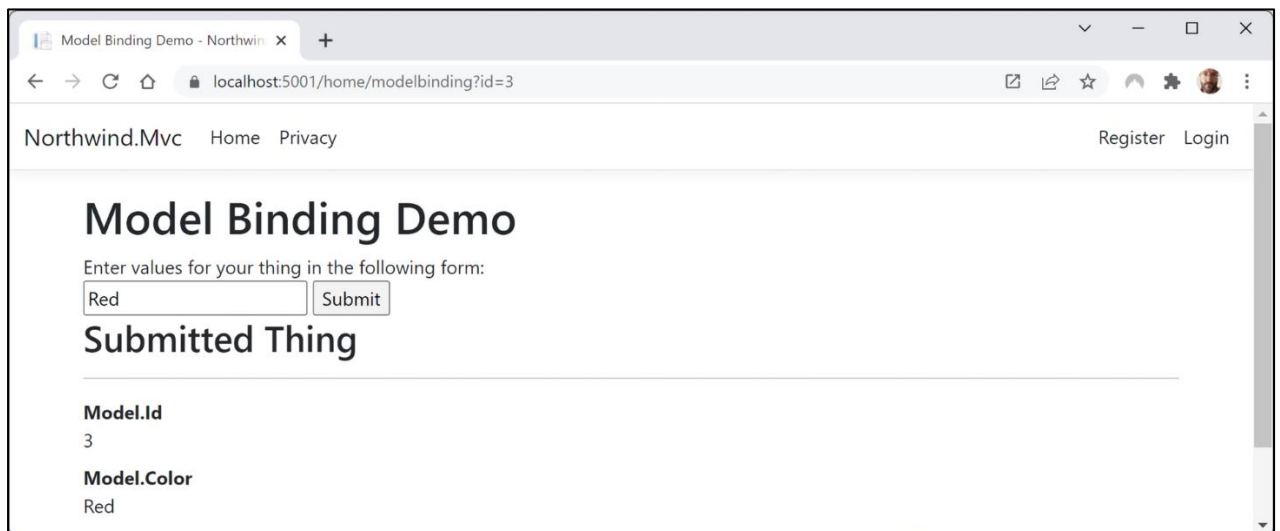
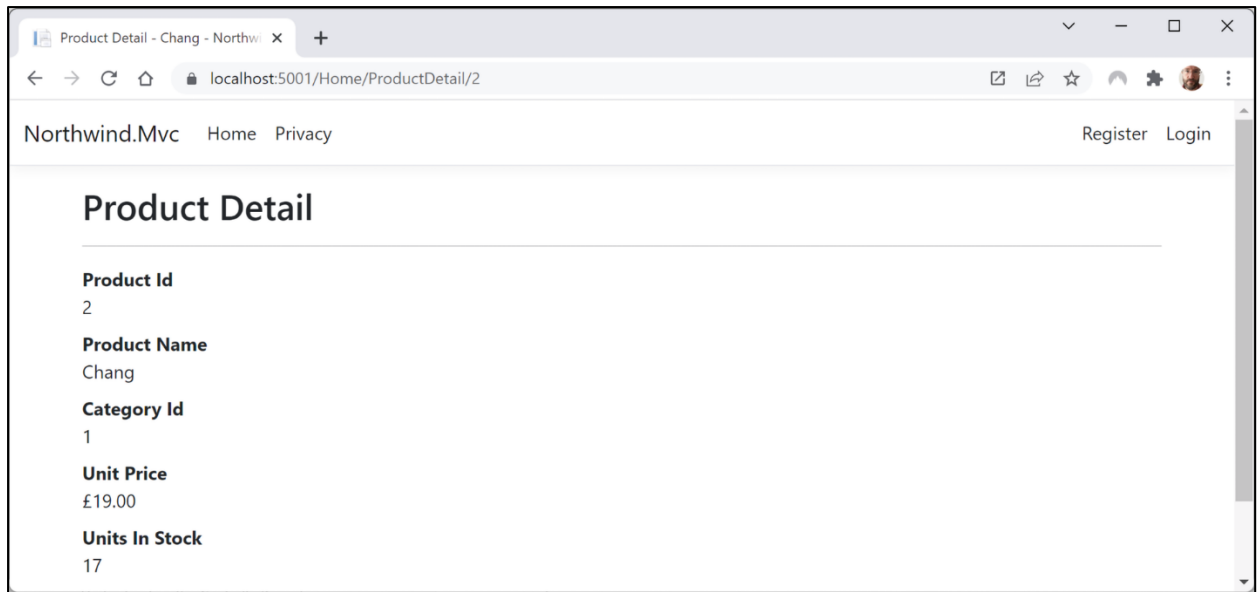




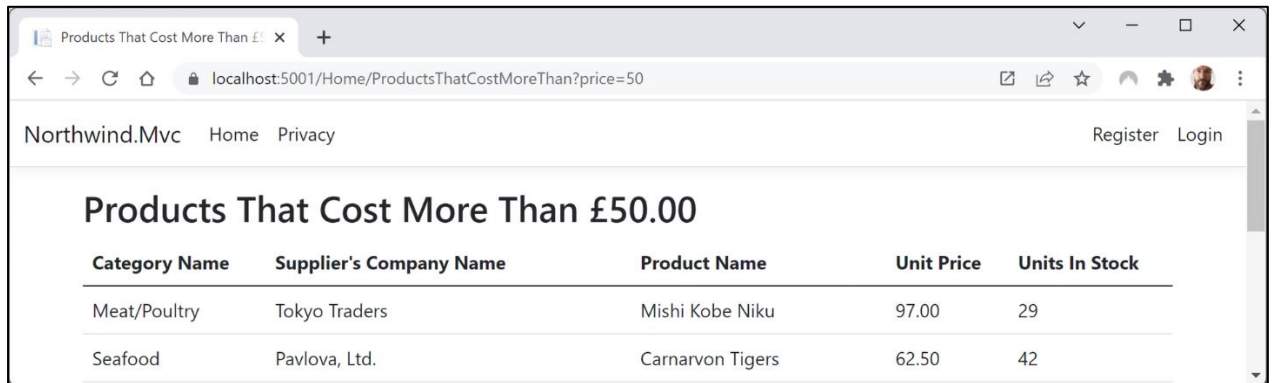
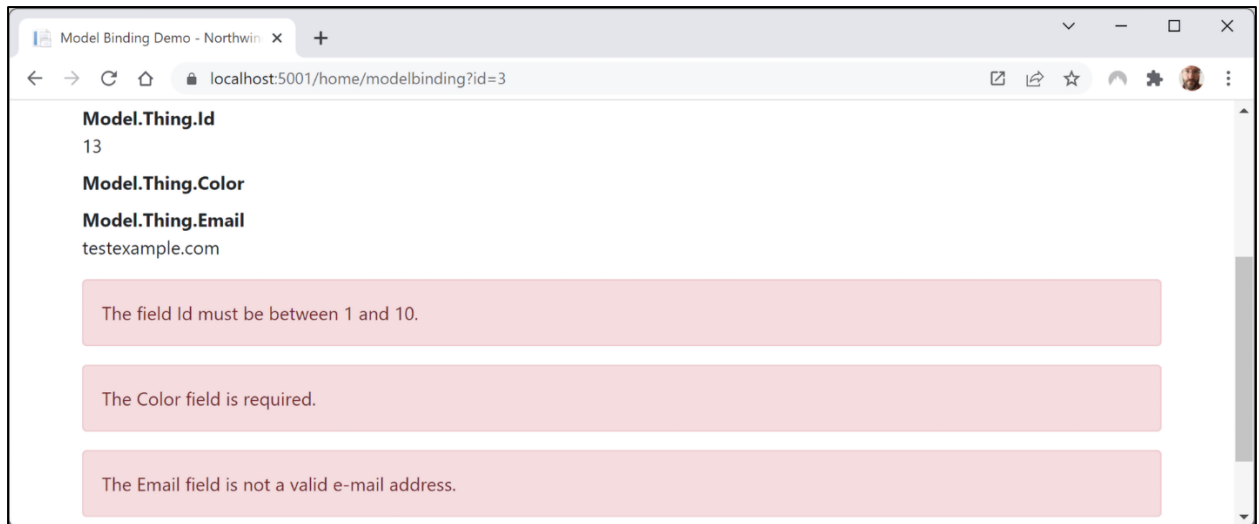
# Chapter 14: Building Websites Using the Model-View-Controller Pattern



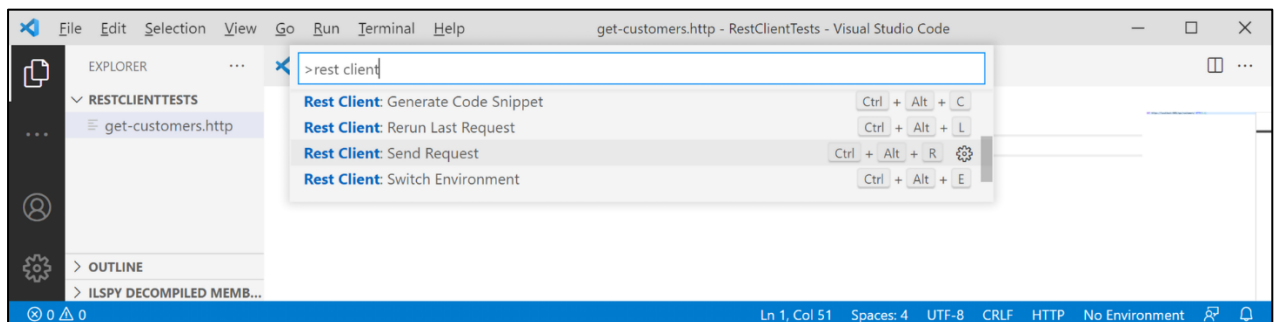
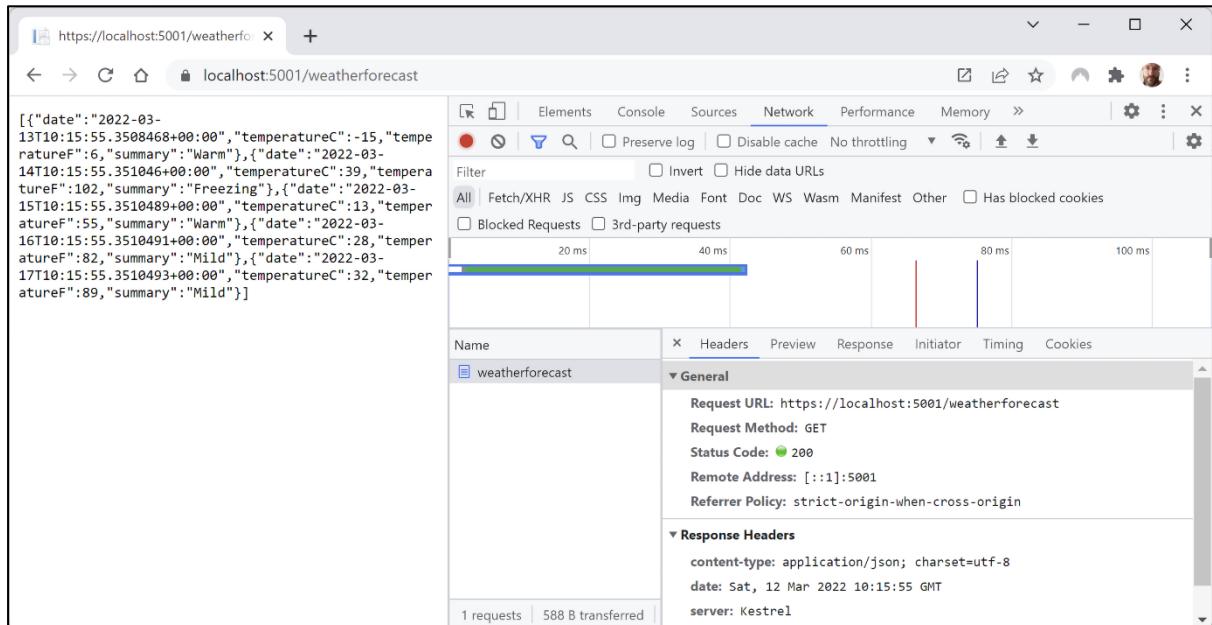








## Chapter 15: Building and Consuming Web Services



This screenshot shows the Visual Studio Code interface with the REST Client extension. The Explorer sidebar on the left shows a project named 'RESTCLIENTTESTS' containing a file 'get-customers.http'. The main editor displays the content of 'get-customers.http', which contains a single GET request to 'https://localhost:5001/api/customers/?country=USA'. The status bar at the bottom indicates the response time is 7ms and the body size is 5.37 KB.

```
get-customers.http
GET https://localhost:5001/api/customers/?country=USA HTTP/1.1
Accept: application/xml
```

Response(7ms)

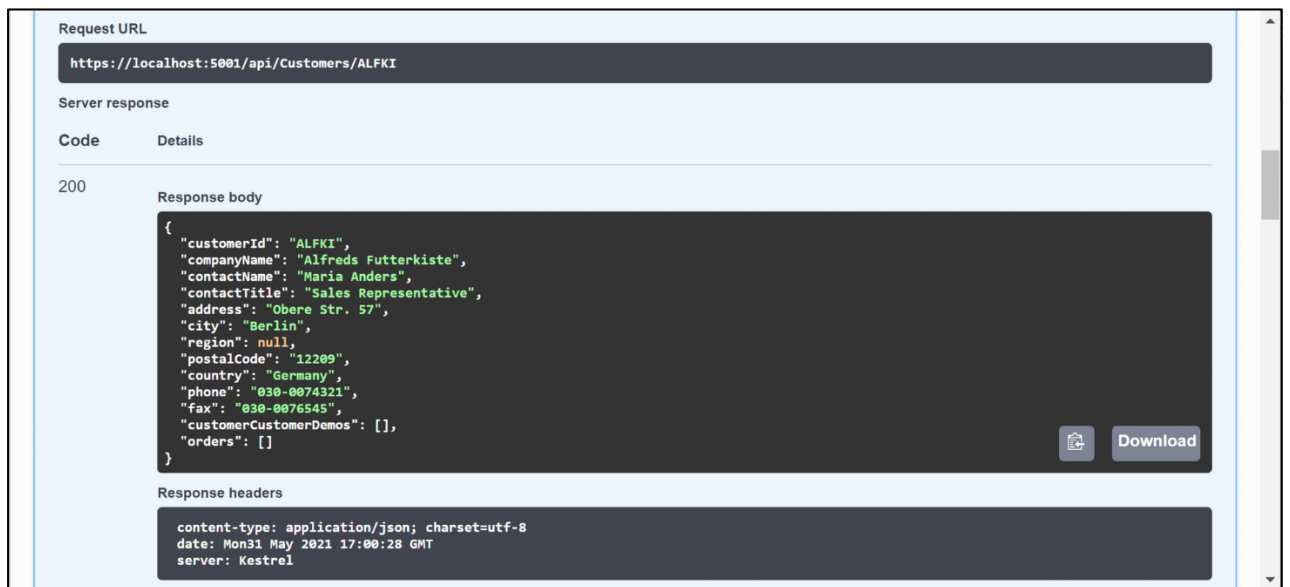
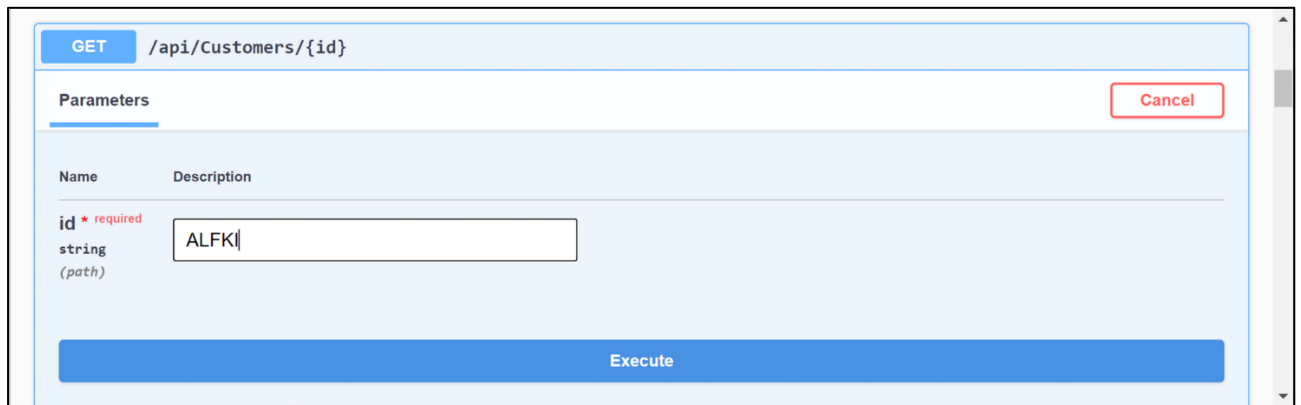
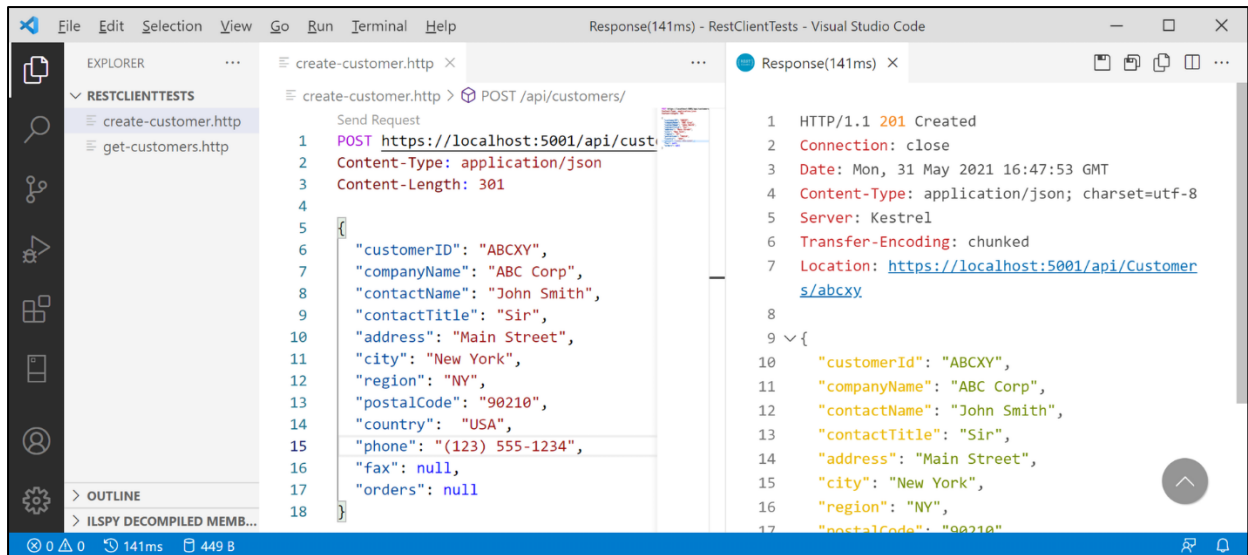
```
HTTP/1.1 200 OK
Connection: close
Date: Mon, 31 May 2021 16:40:56 GMT
Content-Type: application/xml; charset=utf-8
Server: Kestrel
Content-Length: 5370

<ArrayOfCustomer
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://schemas.datacontract.org/2004/07/Packt.Shared">
  <Customer>
    <Address>187 Suffolk Ln.</Address>
    <City>Boise</City>
    <CompanyName>Save a Lot Market</CompanyName>
```

This screenshot shows the Visual Studio Code interface with the REST Client extension. The Explorer sidebar on the left shows a project named 'RESTCLIENTTESTS' containing two files: 'create-customer.http' and 'get-customers.http'. The main editor displays the content of 'create-customer.http', which contains a single POST request to 'https://localhost:5001/api/customers/'. The status bar at the bottom indicates the selected text is on line 18, column 2, with a length of 301 characters.

```
create-customer.http
POST https://localhost:5001/api/customers/ HTTP/1.1
Content-Type: application/json
Content-Length: 301

{
  "customerID": "ABCXY",
  "companyName": "ABC Corp",
  "contactName": "John Smith",
  "contactTitle": "Sir",
  "address": "Main Street",
  "city": "New York",
  "region": "NY",
  "postalCode": "90210",
  "country": "USA",
  "phone": "(123) 555-1234",
  "fax": null,
  "orders": null
}
```





Request URL

https://localhost:5001/api/Customers

Server response

Code	Details
201	<div>Response body</div> <div><pre>{   "customerId": "SUPER",   "companyName": "Super Company",   "contactName": "Rasmus Ibsen",   "contactTitle": "Sales Leader",   "address": "Rotterslef 23",   "city": "Billund",   "region": null,   "postalCode": "4371",   "country": "Denmark",   "phone": "31 21 43 21",   "fax": "31 21 43 22",   "customerCustomerDemos": [],   "orders": [] }</pre></div> <div><div></div>Download</div> <div>Response headers</div> <div><pre>content-type: application/json; charset=utf-8 date: Mon31 May 2021 17:02:58 GMT location: https://localhost:5001/api/Customers/super server: Kestrel</pre></div>

Request URL

https://localhost:5001/api/Customers/super

Server response

Code	Details
204	<div>Response headers</div> <div><pre>date: Mon31 May 2021 17:06:28 GMT server: Kestrel</pre></div>

Request URL

https://localhost:5001/api/Customers/super

Server response

Code	Details
404	<div>Error:</div> <div>Response body</div> <div><pre>{   "type": "https://tools.ietf.org/html/rfc7231#section-6.5.4",   "title": "Not Found",   "status": 404,   "traceId": "00-220afd91a1f9eb486495666eb3b31554-1cb427958344f3b4-00" }</pre></div> <div><div></div>Download</div>

Request URL

https://localhost:5001/api/Customers/bad

Server response

Code	Details
400	Error: Response body <pre>{   "type": "https://localhost:5001/customers/failed-to-delete",   "title": "Customer ID bad found but failed to delete.",   "status": 400,   "detail": "More details like Company Name, Country and so on.",   "instance": "/api/Customers/bad" }</pre> Response headers <pre>content-type: application/problem+json; charset=utf-8 date: Mon31 May 2021 17:08:35 GMT server: Kestrel</pre>

Solution 'PracticalApps' Property Pages

Configuration: N/A Platform: N/A Configuration Manager...

Common Properties

- Startup Project
- Project Dependencies
- Code Analysis Settings
- Debug Source Files
- Configuration Properties

Current selection

Single startup project

Northwind.Common.EntityModels.Sqlite

Multiple startup projects:

Project	Action
Northwind.Common.UnitTests	None
Northwind.Common.DataContext.Sqlite	None
Northwind.Common.DataContext.SqlServer	None
Northwind.Common.EntityModels.Sqlite	None
Northwind.Common.EntityModels.SqlServer	None
Northwind.Mvc	Start without debugging
Northwind.Razor.Employees	None
Northwind.Web	None
Northwind.WebApi	Start without debugging

OK Cancel Apply

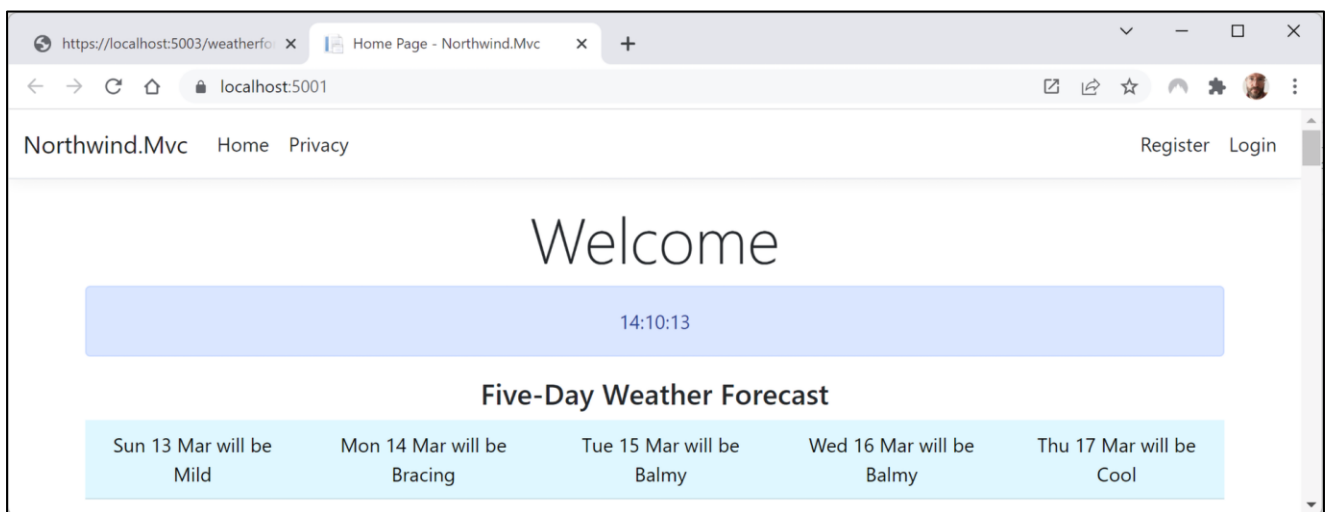
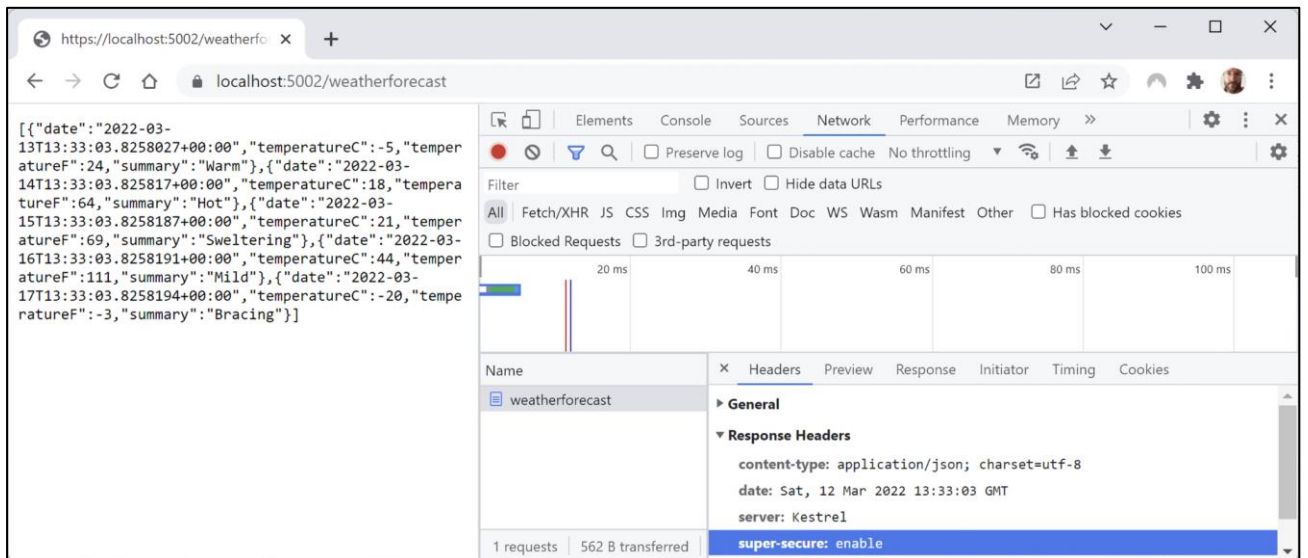
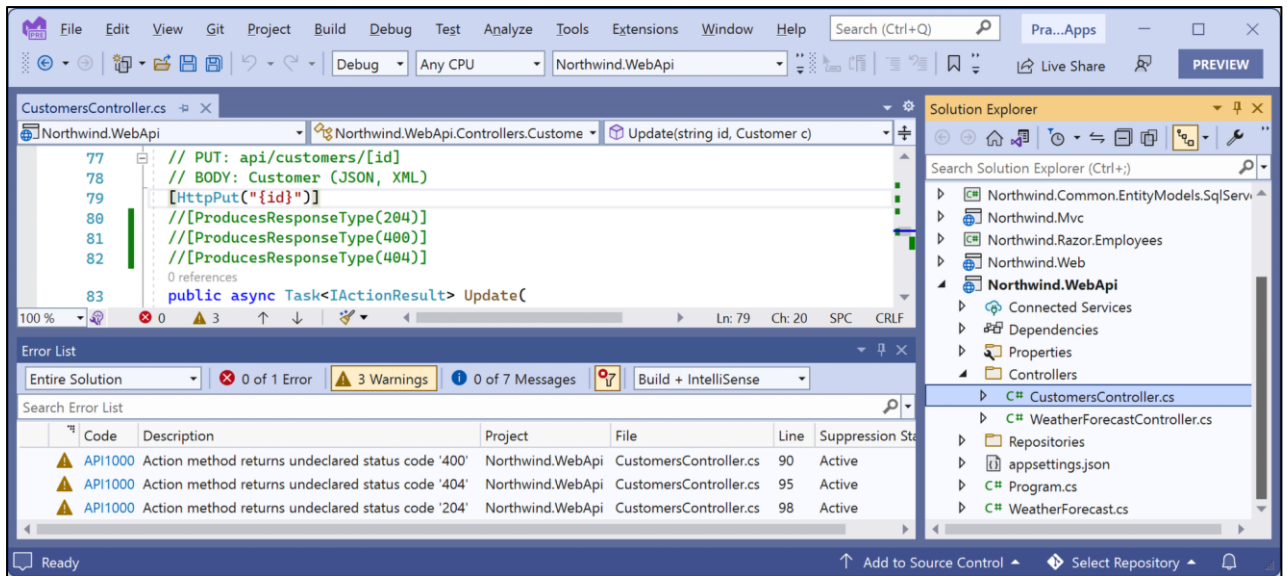
Customers in UK - Northwind.Mvc

localhost:5001/Home/Customers?country=UK

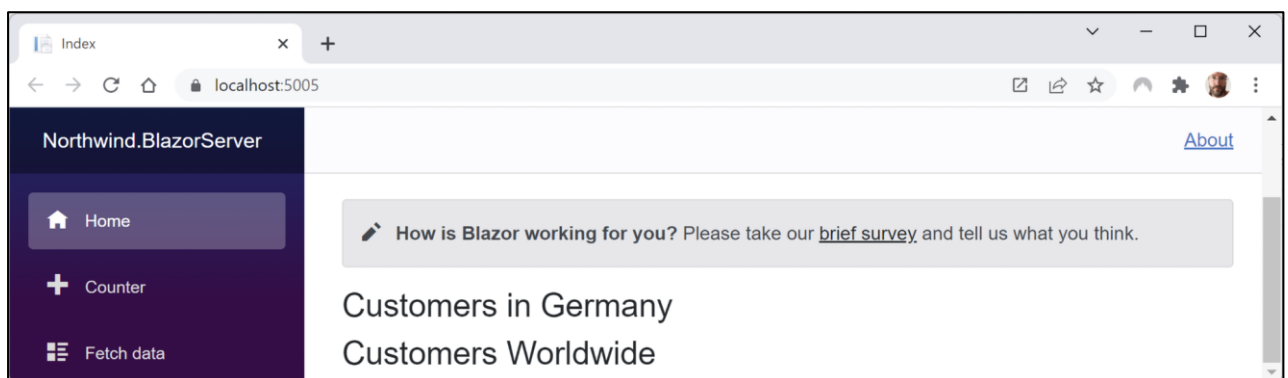
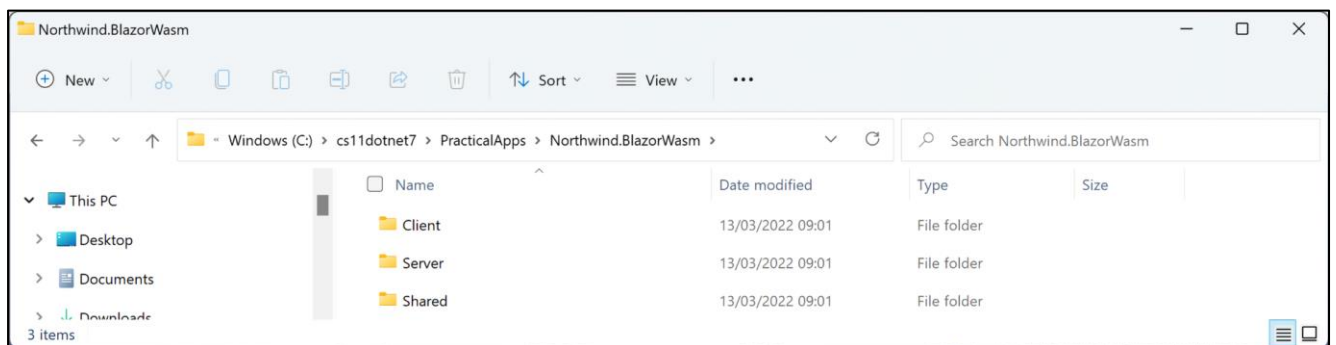
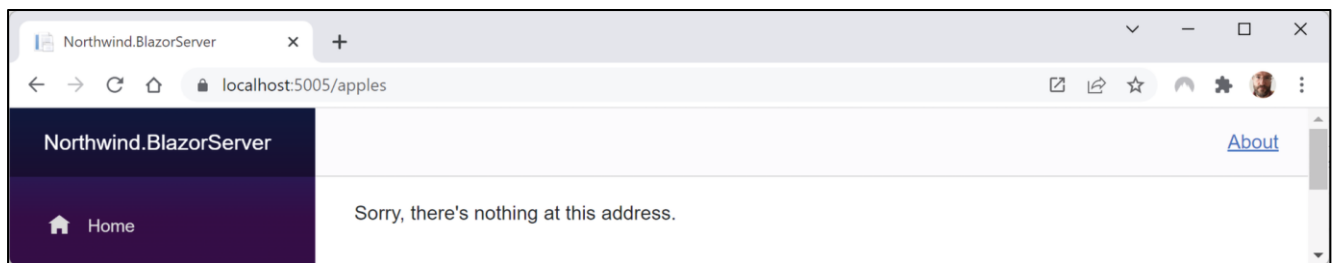
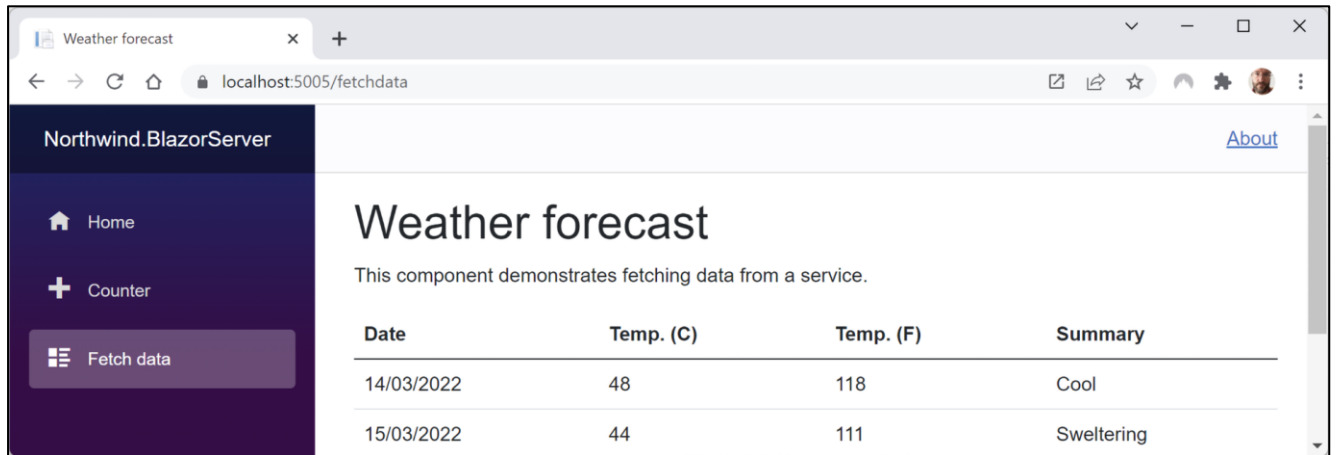
Northwind.Mvc Home Privacy Register Login

## Customers in UK

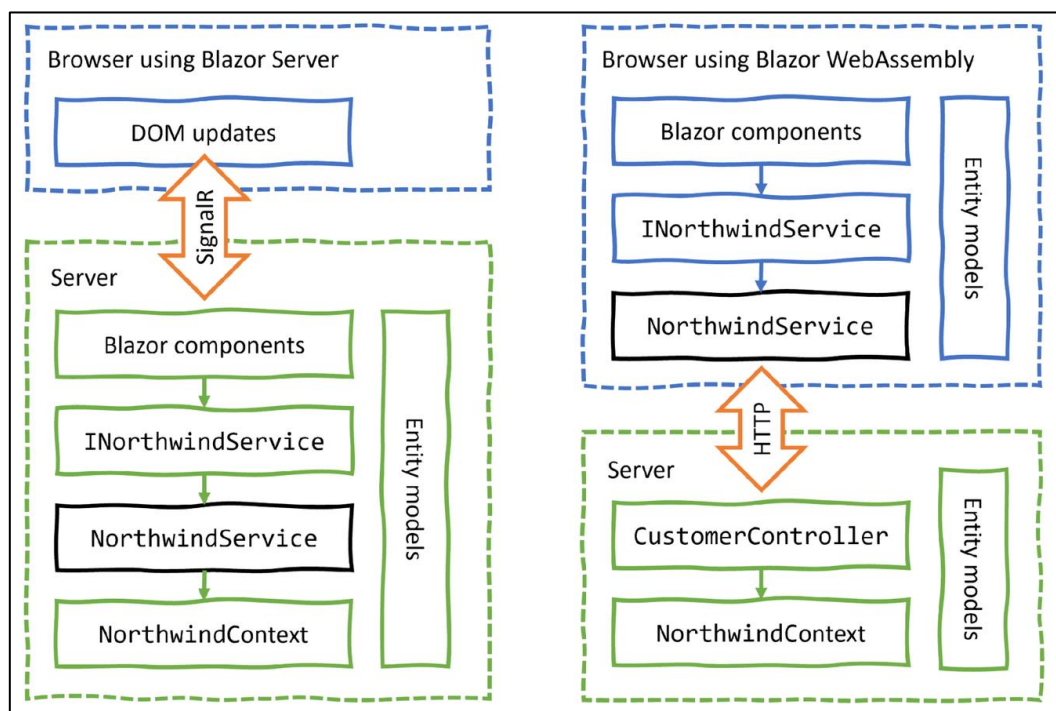
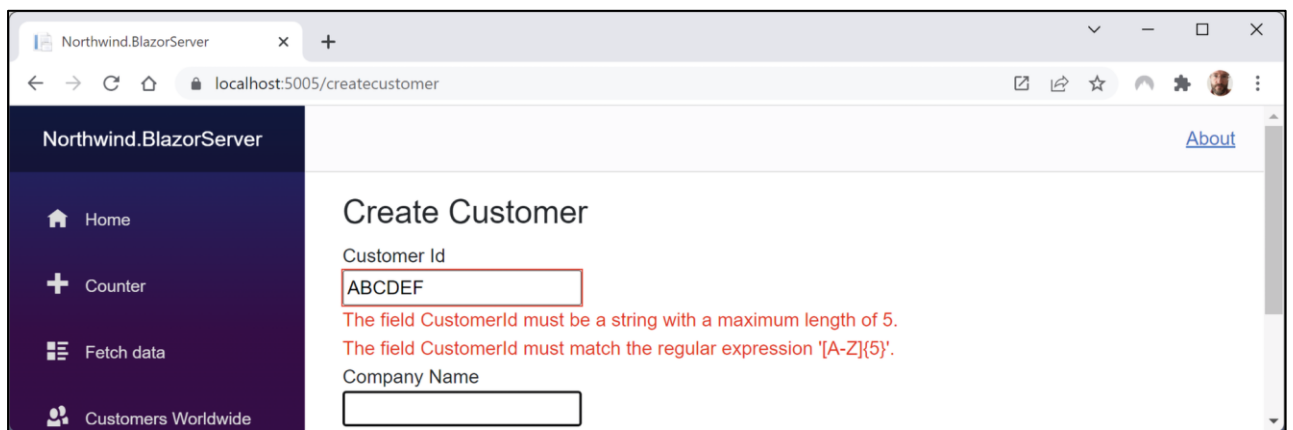
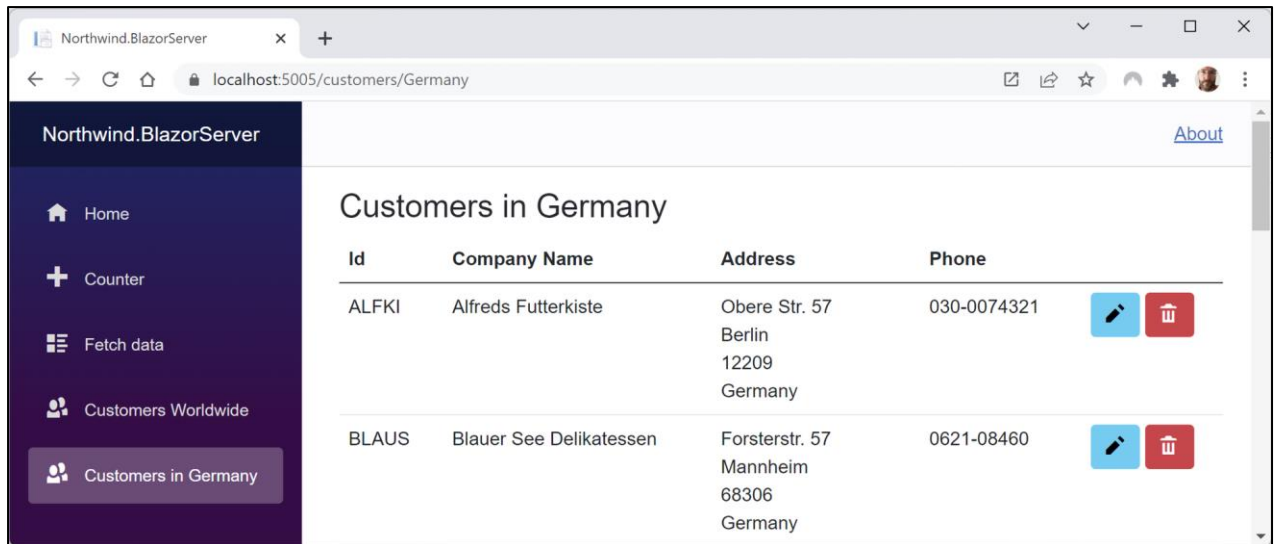
Company Name	Contact Name	Address	Phone
Seven Seas Imports	Hari Kumar	90 Wadhurst Rd. London UK OX15 4NB	(171) 555-1717
Consolidated Holdings	Elizabeth Brown	Berkeley Gardens 12 Brewery London UK WX1 6LT	(171) 555-2282
North/South	Simon Crowther	South House 300 Queensbridge London UK SW7 1RZ	(171) 555-7733



## Chapter 16: Building User Interfaces Using Blazor







Northwind.BlazorWasm

localhost:5007/customers/France

About

## Customers in France

+ Create New

Id	Company Name	Address	Phone
BLONP	Blondesddsl père et fils	24, place Kléber Strasbourg 67000 France	88.60.15.31
BONAP	Bon app'	12, rue des Bouchers Marseille	91.24.45.40

Debugging hotkey: Shift+Alt+D (when application has focus)

blazor Loaded 10.65 MB resources  
This application was built with linking (tree shaking) disabled. Published applications will be significantly smaller.

Loaded 10.65 MB resources from cache

(index)	responseBytes
Microsoft.AspNetCore.Authorization.dll	22938
Microsoft.AspNetCore.Components.dll	93300
Microsoft.AspNetCore.Components.Forms.dll	18153

Index

localhost:5007

Install Northwind.BlazorWasm

About

## Hello, world!

Northwind.BlazorWasm

Customers Worldwide

+ Create New

Loading...

An unhandled error has occurred. [Reload](#)

DevTools - localhost:5001/customers/France

Network

Filter

Hide data URLs

Blocked Requests

5000 ms 10000 ms

Presets

Fast 3G 20000 ms

Slow 3G

Offline

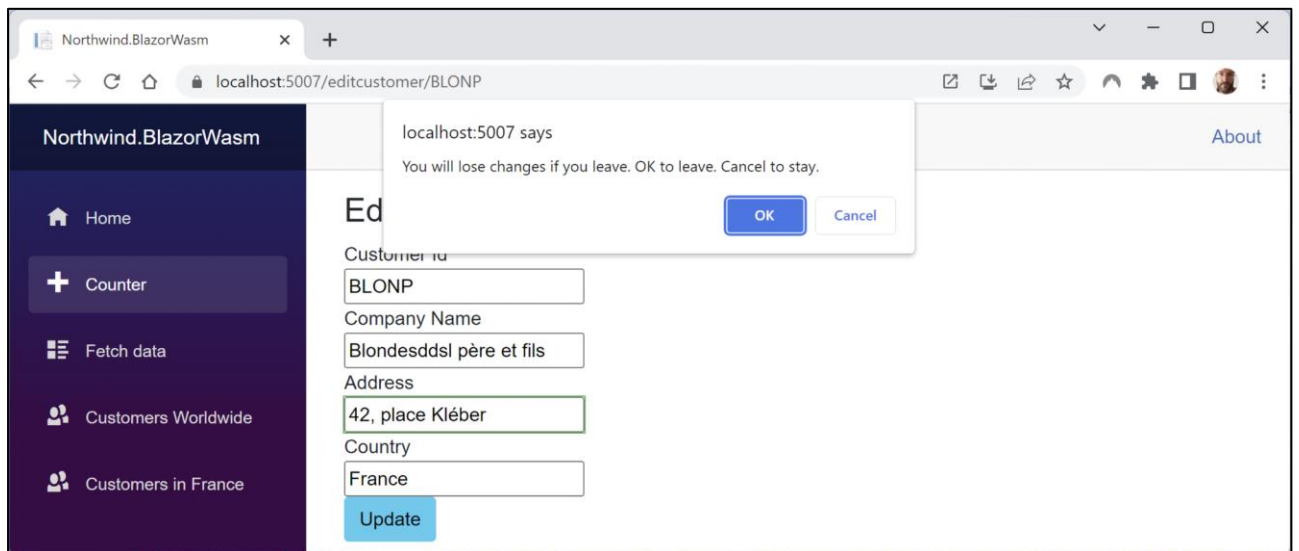
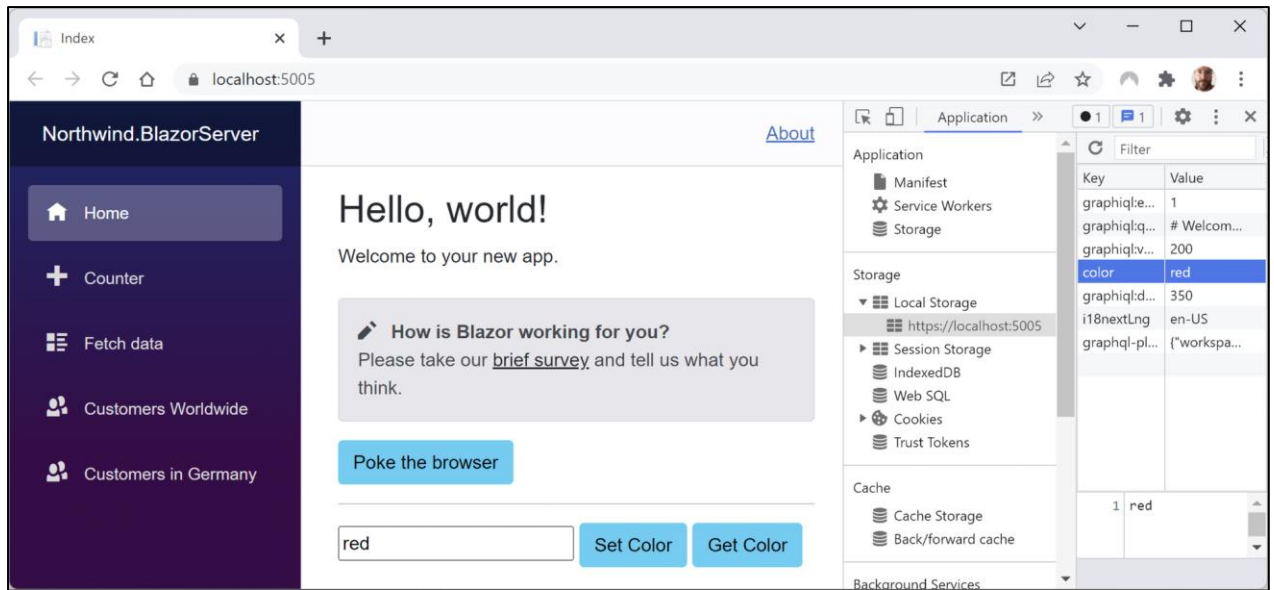
Custom

Add...

Name Status Type Initiator

customers (failed) fetch dotnet6

2 requests 0 B transferred 0 B resources



## Chapter 17: Epilogue

