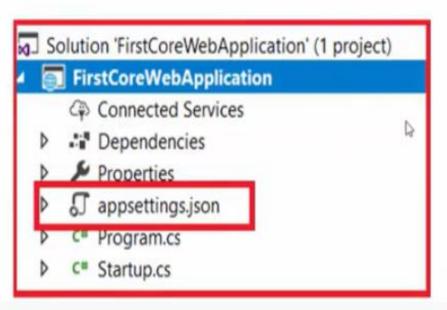
appsettings.json file in ASP.NET CORE

What are the different Configuration Sources available in the ASP.NET Core application?

- If you have worked with the previous versions of the ASP.NET application, then you make know the importance of the web.config file.
- In previous versions of ASP.NET application, we generally used to store the application configuration settings such as database connection strings, any application scope global variables and many more within the web.config file.
- But in ASP.NET Core, the application configuration settings can come from different configurations sources such as
 - Files (appsettings.json, appsettings.{Environment}.json, where the {Environment} is the nothing but the
 applications current hosting environments such as Development, Staging or Production)
 - User secrets
 - Environment variables
 - Command-line arguments

What is ASP.NET Core appsettings.json File?

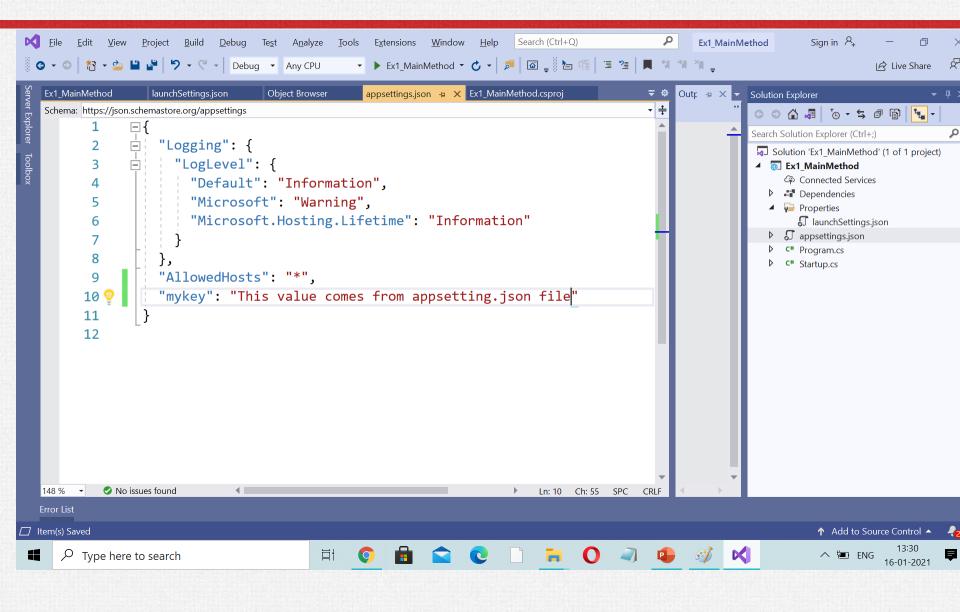
When we create an asp.net core web application with an Empty project template, then the visual studio automatically creates the appsettings.json file for us as shown in the below image.



How to access the configuration information in the ASP.NET Core application?

- ▶ To access the configuration information within the Startup class, you need to use the IConfiguration service which is provided by the ASP.NET Core Framework.
- So what you need to do is just inject the IConfiguration service through the constructor of the Startup class. To do so modify the Startup class which is present in the Startup.cs file

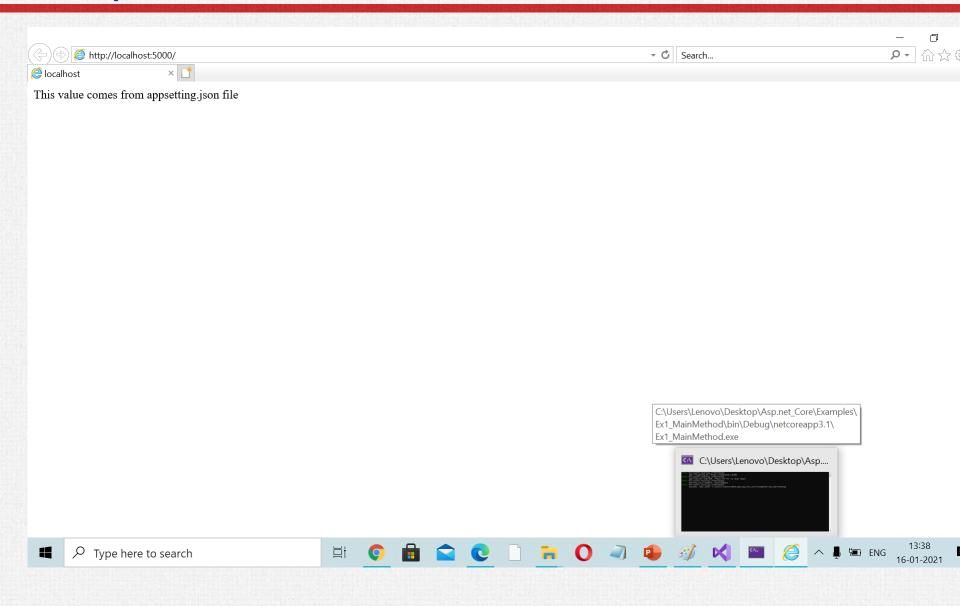
How to access the value from appSetting.json file:1)declare a mykey variable inside that and access in startup.cs file.



- First add a package inside startup.cs file
- using Microsoft.Extensions.Configuration;

```
[] launchSettings.json
C Startup.cs X
                                       () appsettings ison ×
mywebapp > O Startup.cs
                                                D:\mywebapp\appsettings.json
 17
           public class Startup
 13
 14
               // This method gets called by the runtime. Use this method to add services to the container.
 15
               // For more information on how to configure your application, visit https://go.microsoft.com/fwlink/?LinkID=398948
 16
 17
 18
               private IConfiguration config;
 19
               public Startup(IConfiguration conifg)
 20
                   _config=config;
 21
 22
 23
 24
               public void ConfigureServices(IServiceCollection services)
 25
 26
 27
               // This method gets called by the runtime. Use this method to configure the HTTP request pipeline.
 28
               public void Configure (IApplicationBuilder app, IHostingEnvironment env)
 29
 30
 31
                   if (env.IsDevelopment())
 32
 33
                        app.UseDeveloperExceptionPage();
 34
 35
                   app.Run(async (context) =>
 36
 37
                       await context.Response.WriteAsync([config["mykey"]);
 38
 39
                   });
 48
```

Output:-



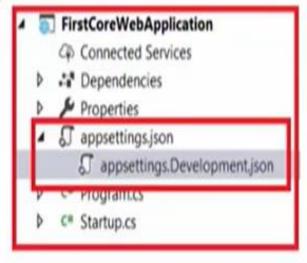
Dependency Injection

- In previous versions of ASP.NET applications, the Dependency Injection design pattern was optional. But if you want to configure it in your application, then you need to use some of the frameworks like Ninject, StructureMap, IUnity container, etc.
- ▶ But in ASP.NET Core application Dependency Injection is an integral part and the framework provides the inbuilt support for dependency injection. The Dependency Injection Design Pattern allows us to develop loosely coupled systems that are extensible and also easy to testable.

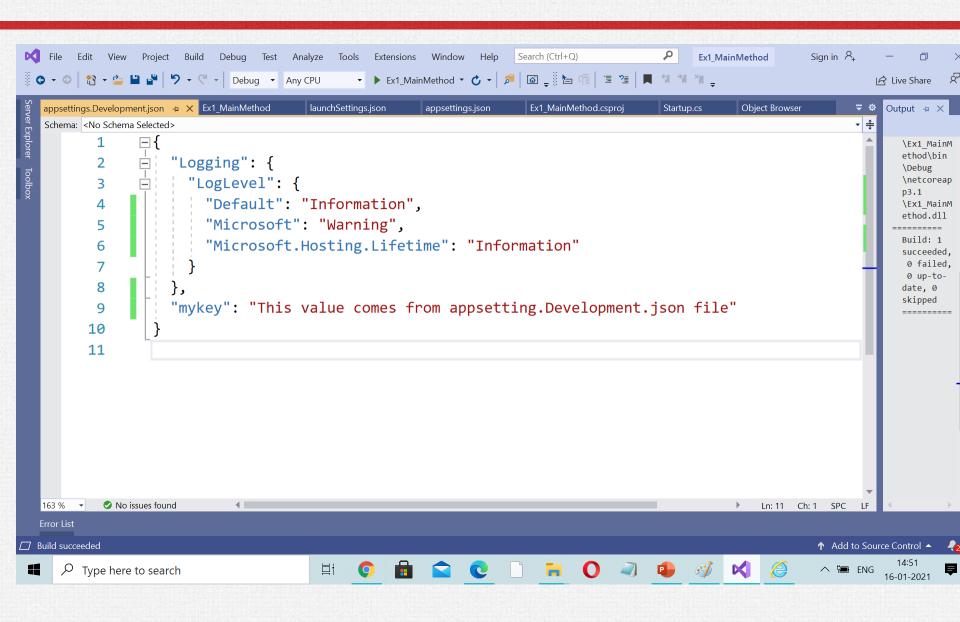
What is the Configuration Execution Order in ASP.NET Core Application?

Before understanding the execution order, let's have a look at the appsettings. Development. json file. You can find this file within the appsettings. json file

as shown below



Same key tag is define in appSettings. Development. json file this file data access first in stratup.cs file



What is the Default Orders of reading the configuration sources?

- The default orders in which the various configuration sources are read for the same key are as follows
 - appsettings.json,
 - appsettings.{Environment}.json here we use appsettings.development.json
 - ▶ User secrets
 - Environment variables
 - Command-line arguments

How to Pass Config value from Command Line in ASP.NET Core Application?

OUTPUT TERMINAL DEBUG CONSOLE PROBLEMS

Windows PowerShell

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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\> cd mywebapp

PS D:\mywebapp> dotract run mykey-"This is command Line argument"

Hosting environment: Development

PS D:\mywebapp> dotnet run mykey="This is command Line argument"

Hosting environment: Development Content root path: D:\mywebapp

Now listening on: https://localhost:5001 Now listening on: http://localhost:5000

Application started. Press Ctrl+C to shut down.

Info: Microsoft.AspNetCore.Mosting.Internal.WebMost[1]
 Request starting HTTP/1.1 GET http://localhost:5000/

info: Microsoft.AspNetCore.Hosting.Internal.WebHost[2]

Request finished in 33.3536ms 200

info: Microsoft.AspNetCore.Hosting.Internal.NetHost[1]

Request starting HTTP/1.1 GET http://localhost:5000/favicon.ico

info: Microsoft.AspNetCore.Hosting.Internal.NebHost[2]

Request finished in 0.3006ms 200

Application is shutting down...

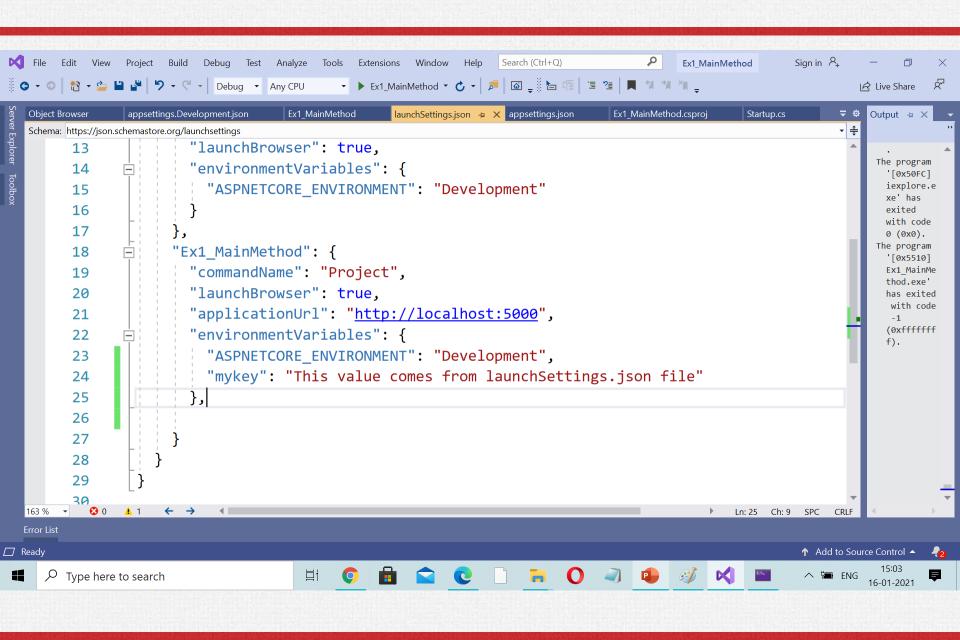
PS 0:\myvebapp>

1: powershell













Thanks