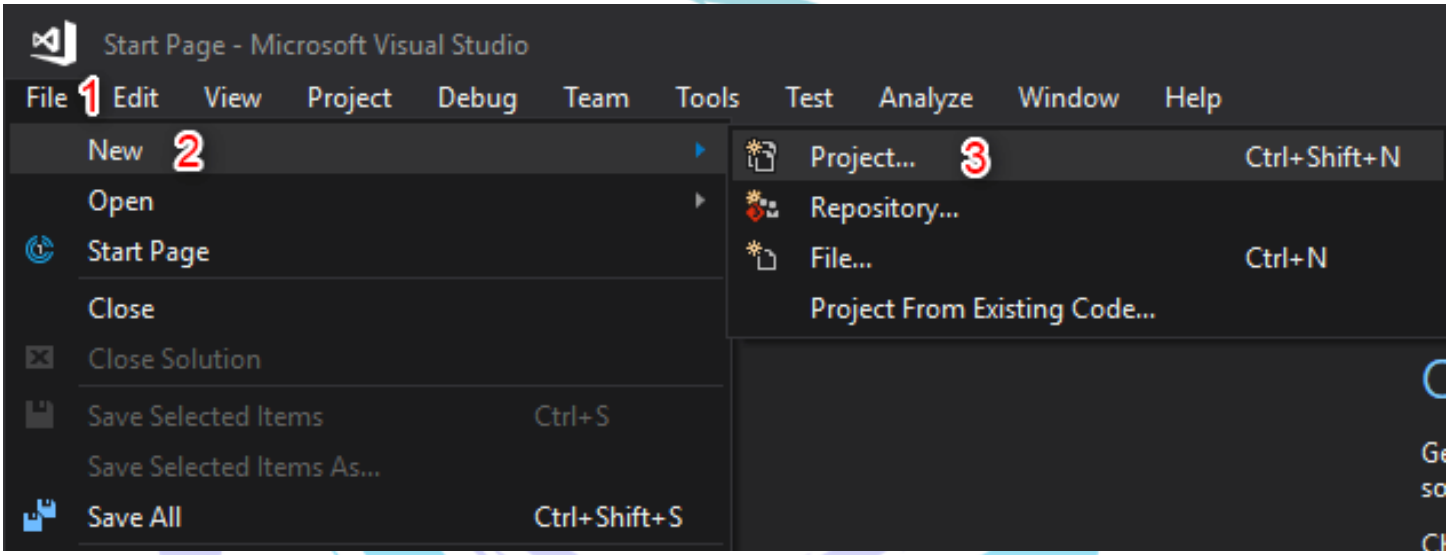
Windows Service in C#

Windows Services normally start when the OS boots and runs an application in the background. Windows Services executes applications in its own session. It either starts automatically or we can manually pause, stop, and restart it.

Steps to Create Windows service

Step 1 :

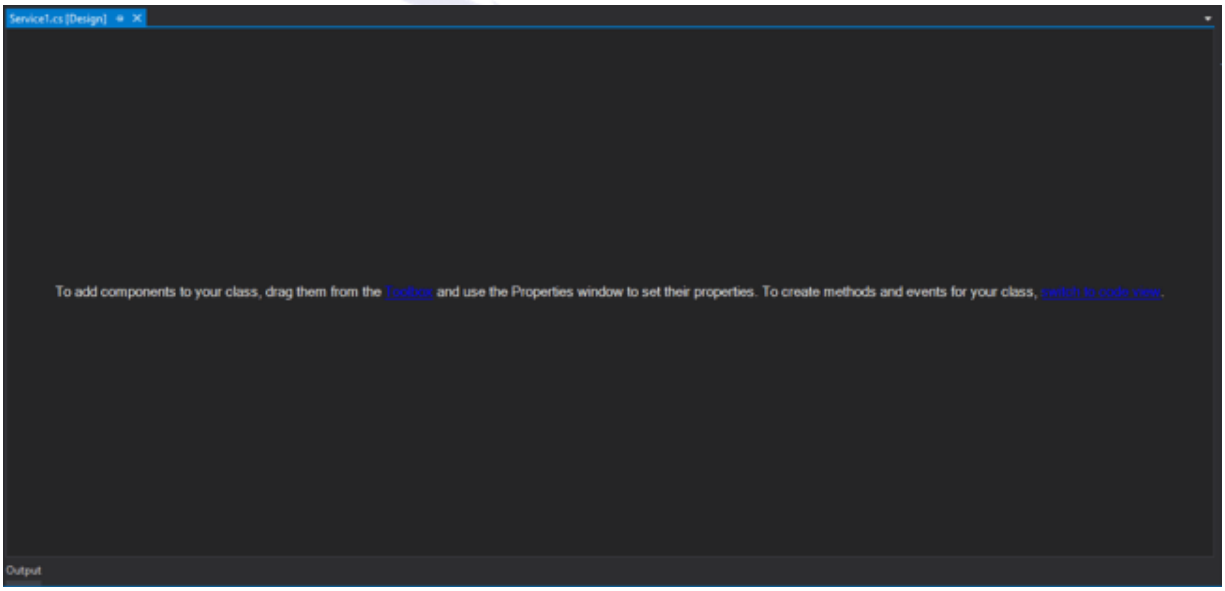
Open Visual Studio, go to
File > New and select Project.
Now select a new project from the Dialog box and select "Window Service" and click on the OK button.



Step 2 :

Go to Visual C# -> "Windows Desktop" -> "Windows Service," give your project name and then click OK

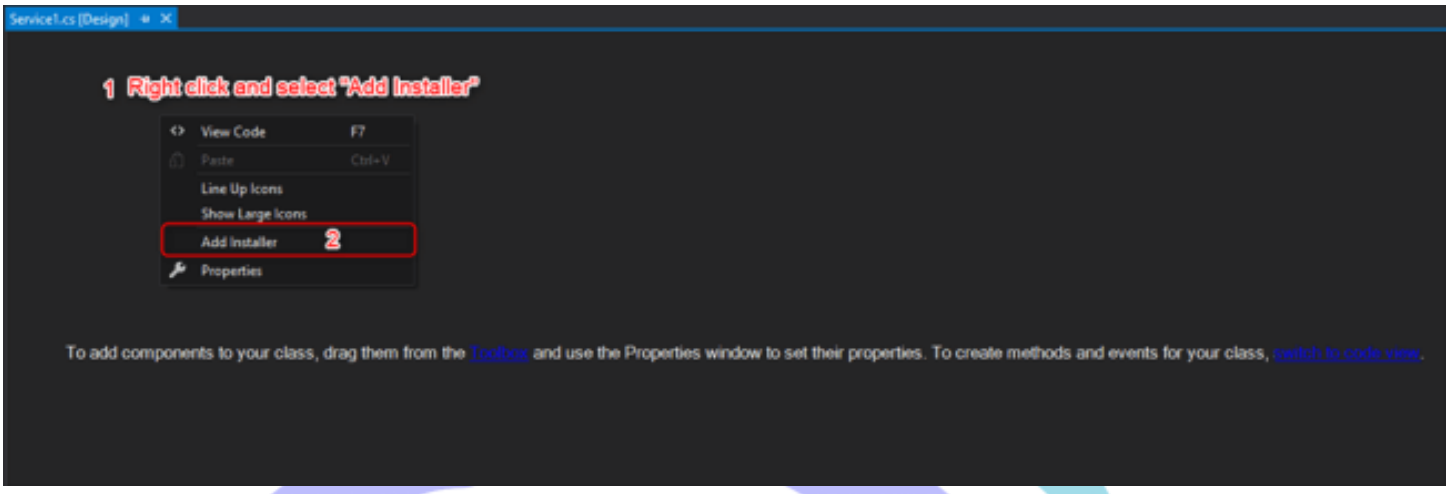
Once you click OK, the below screen will appear, which is your service



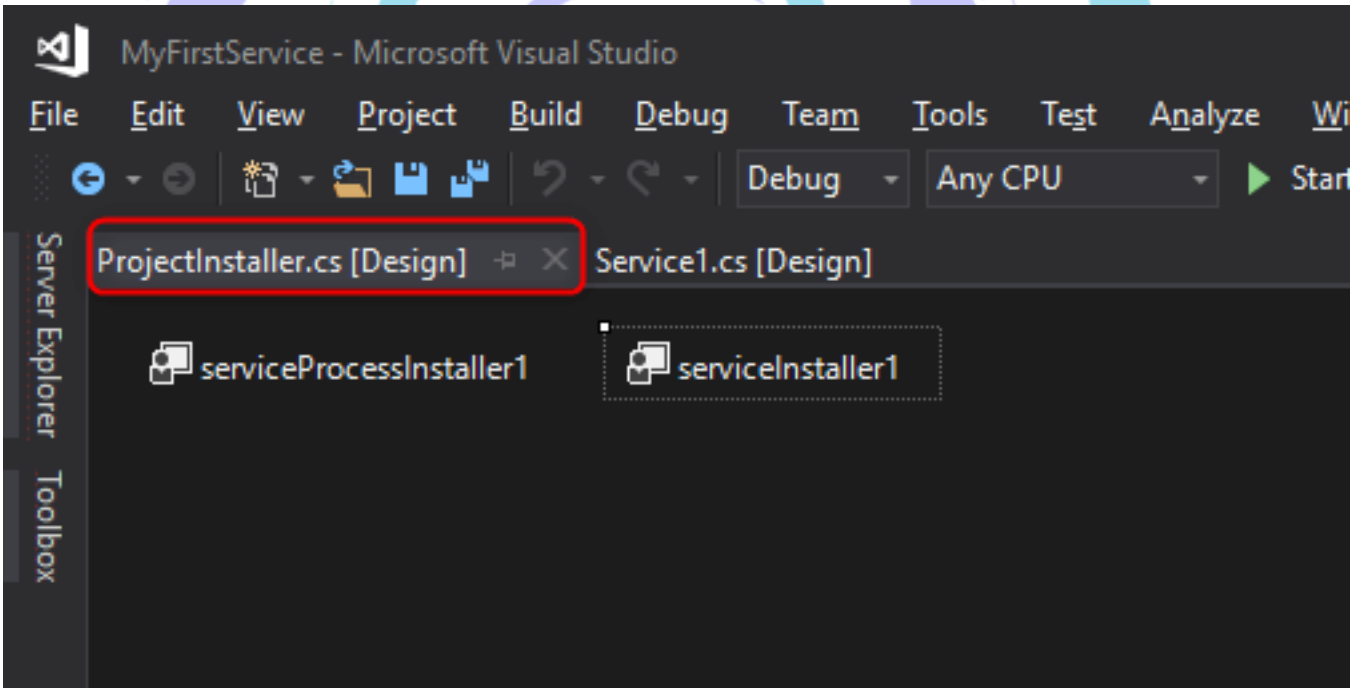
Step 3 :

Right-click on the blank area and select "Add Installer."
Adding Installers to the Service

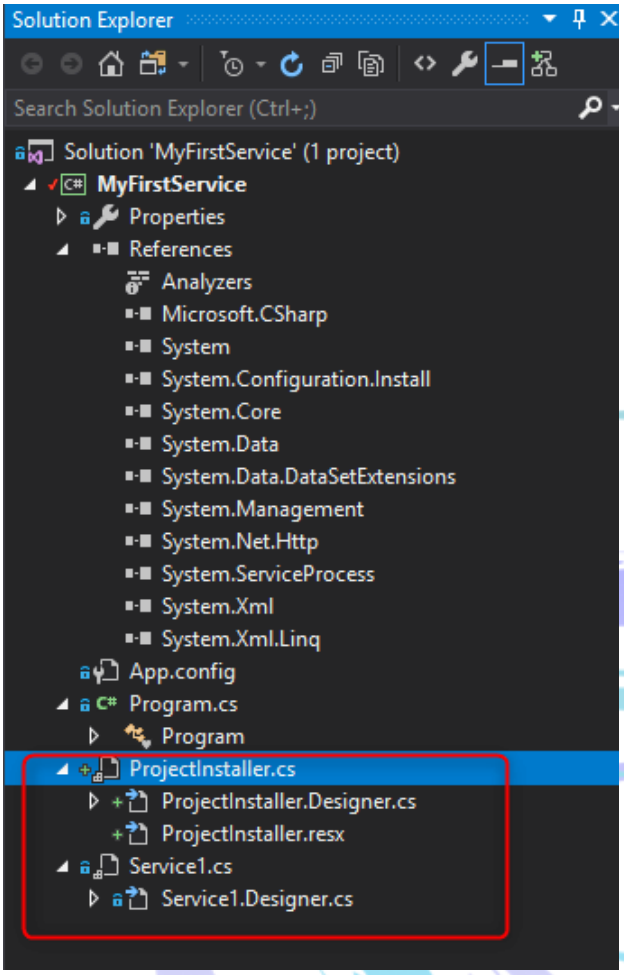
Before you can run a Windows Service, you need to install the Installer, which registers it with the Service Control Manager.



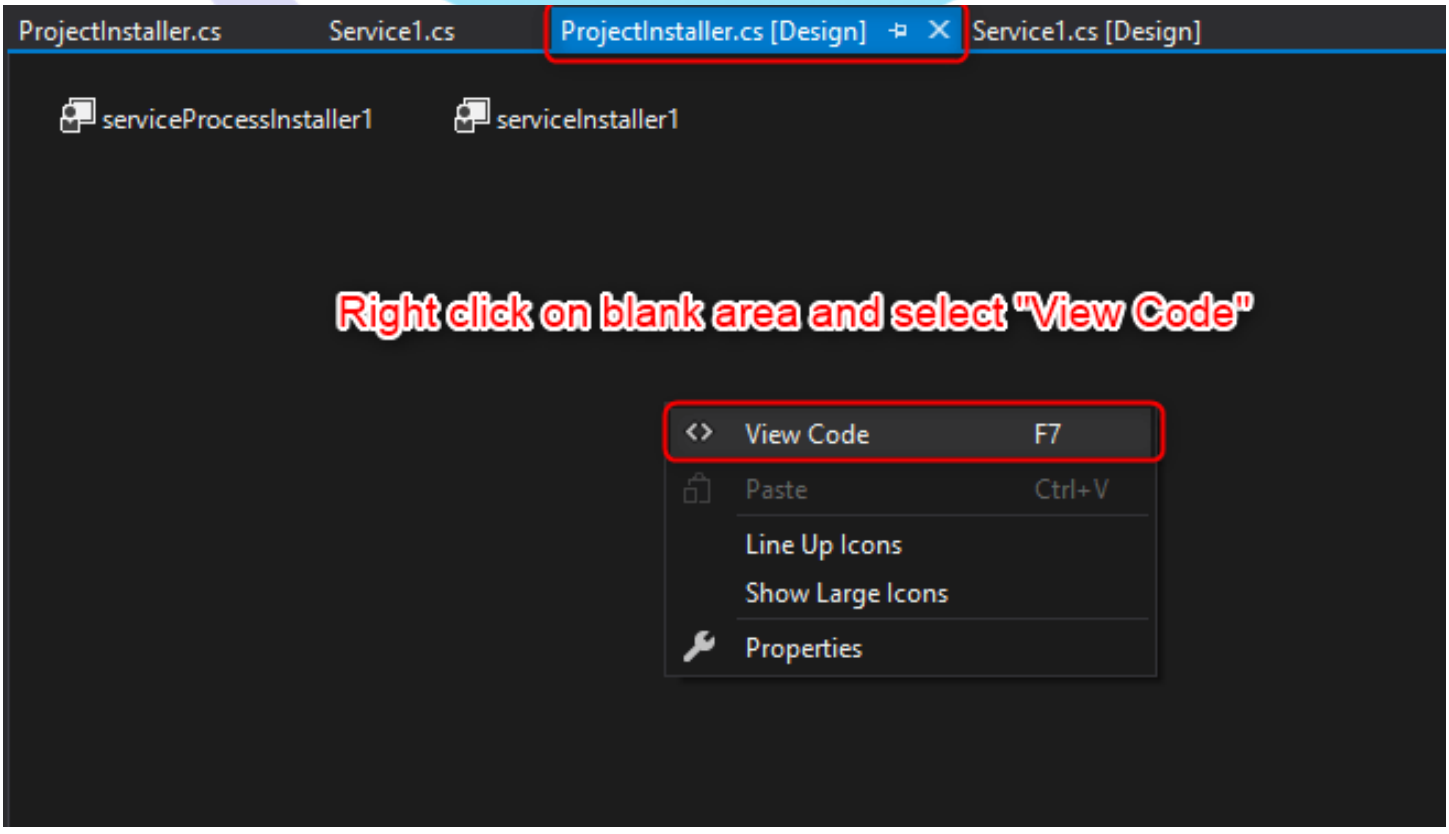
After Adding Installer, ProjectInstaller will add in your project and ProjectInstaller.cs file will be open.



The Solution Explorer looks like this:

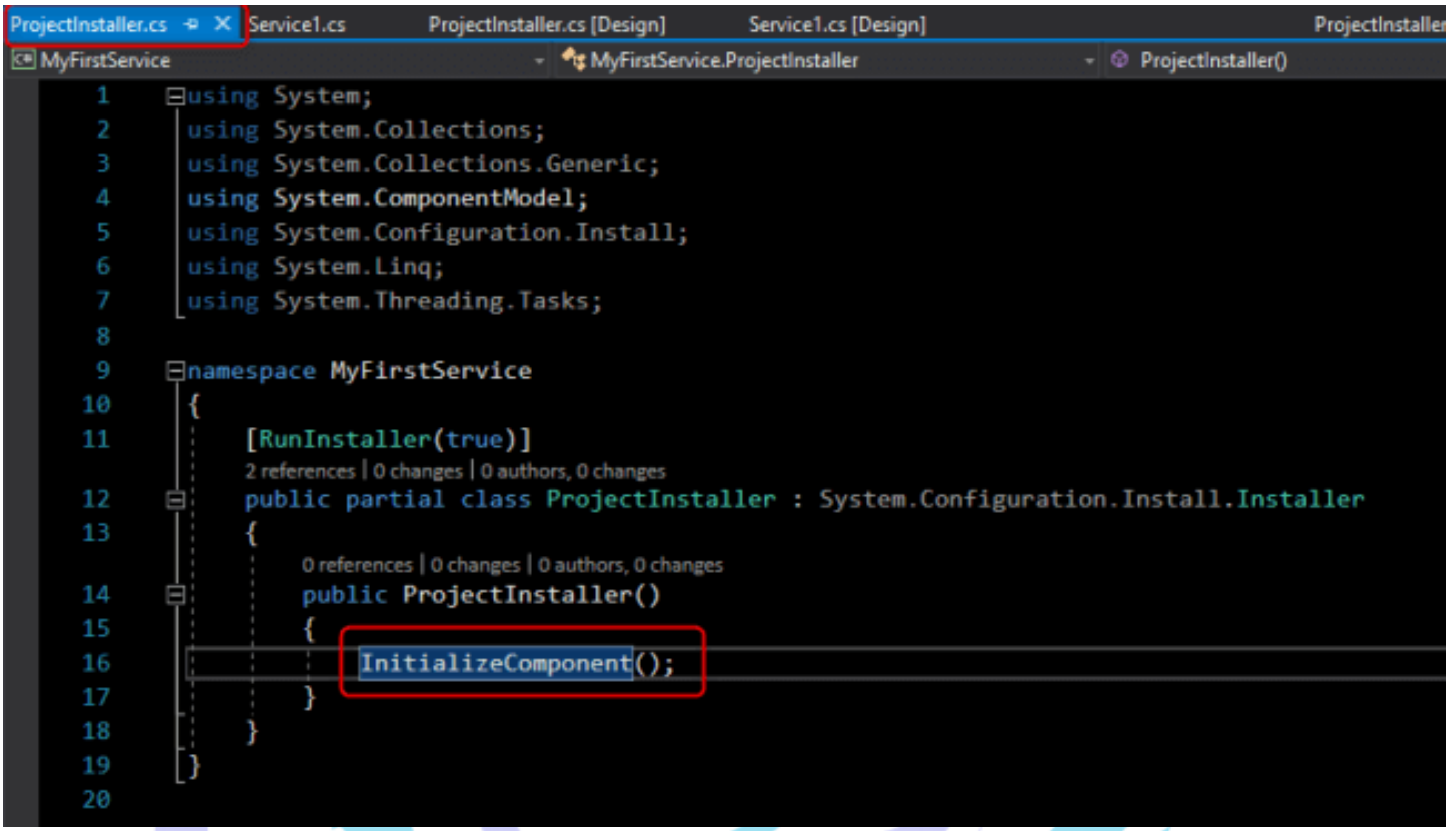


Step 4 :
Right click on blank area and select "View Code"



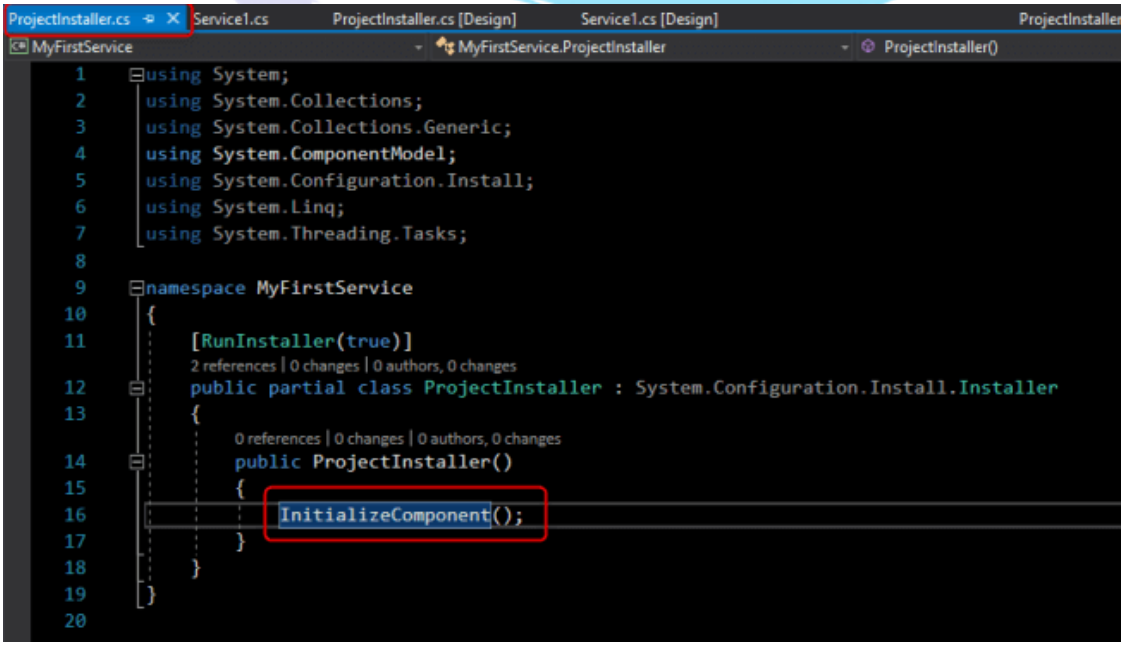
Step 5 :

Its has a Constructor, which contains the InitializeComponent method.
The InitializeComponent method contains the logic which creates and initializes the user interface objects.



Step 6 :

Select the InitializeComponent method and press the F12 key to go the definition.



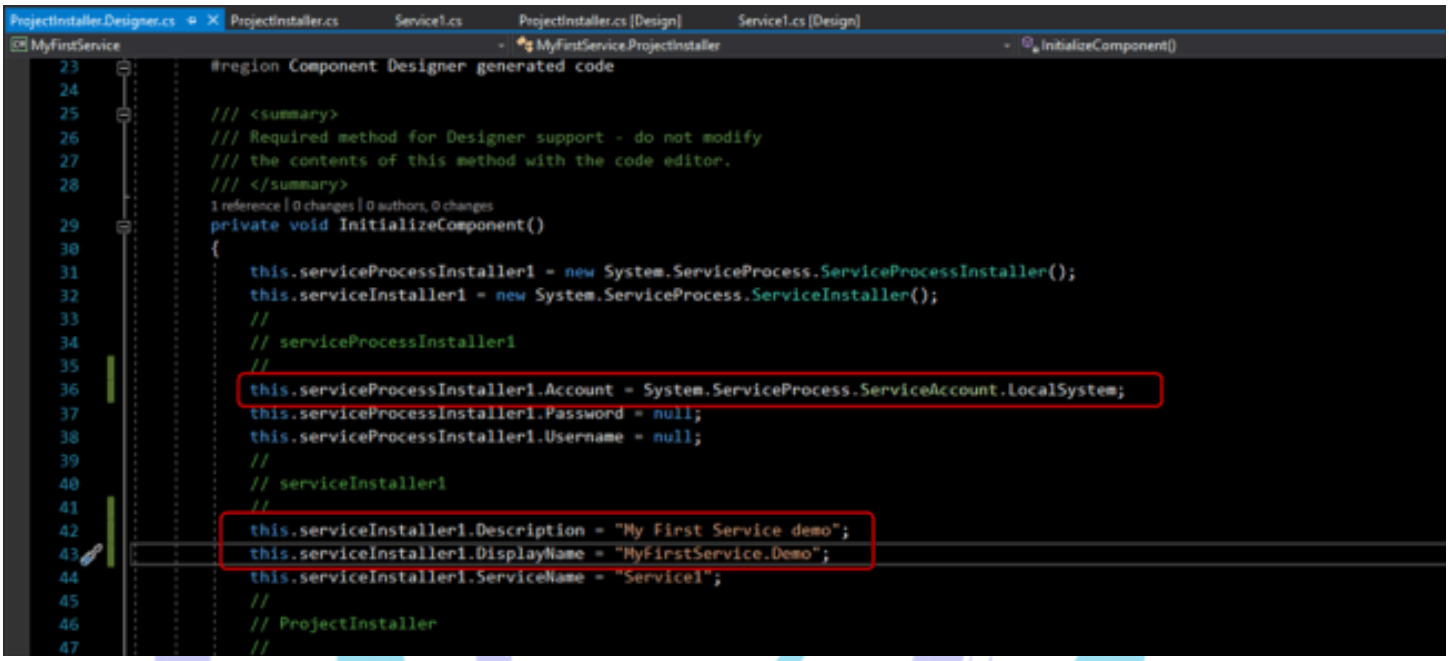
Step 7 :

Now add the below line while installing the service:

this.serviceProcessInstaller1.Account = System.ServiceProcess.ServiceAccount.LocalSystem;

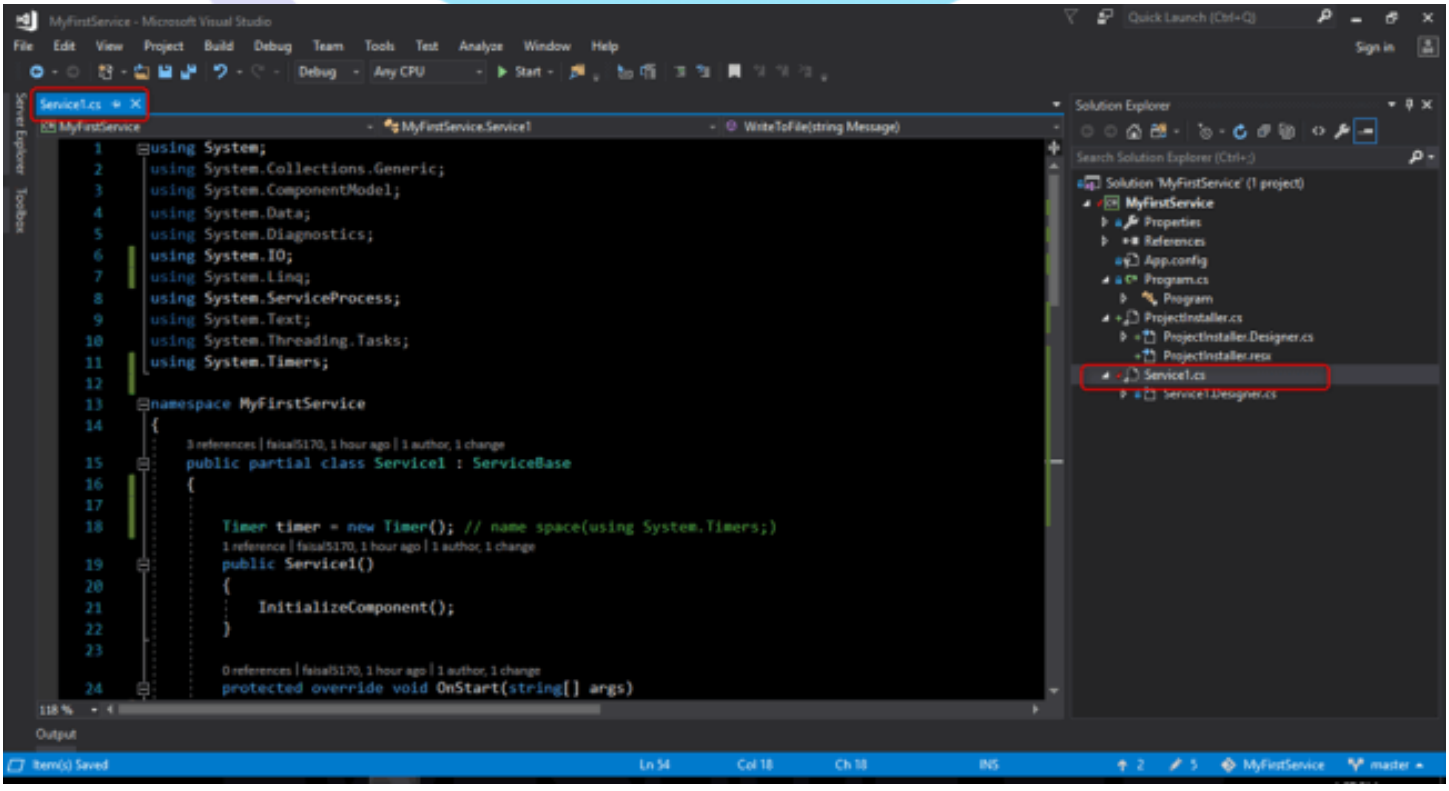
this.serviceInstaller1.Description = "Marvellous Service";

this.serviceInstaller1.DisplayName = "Marvellous Service";



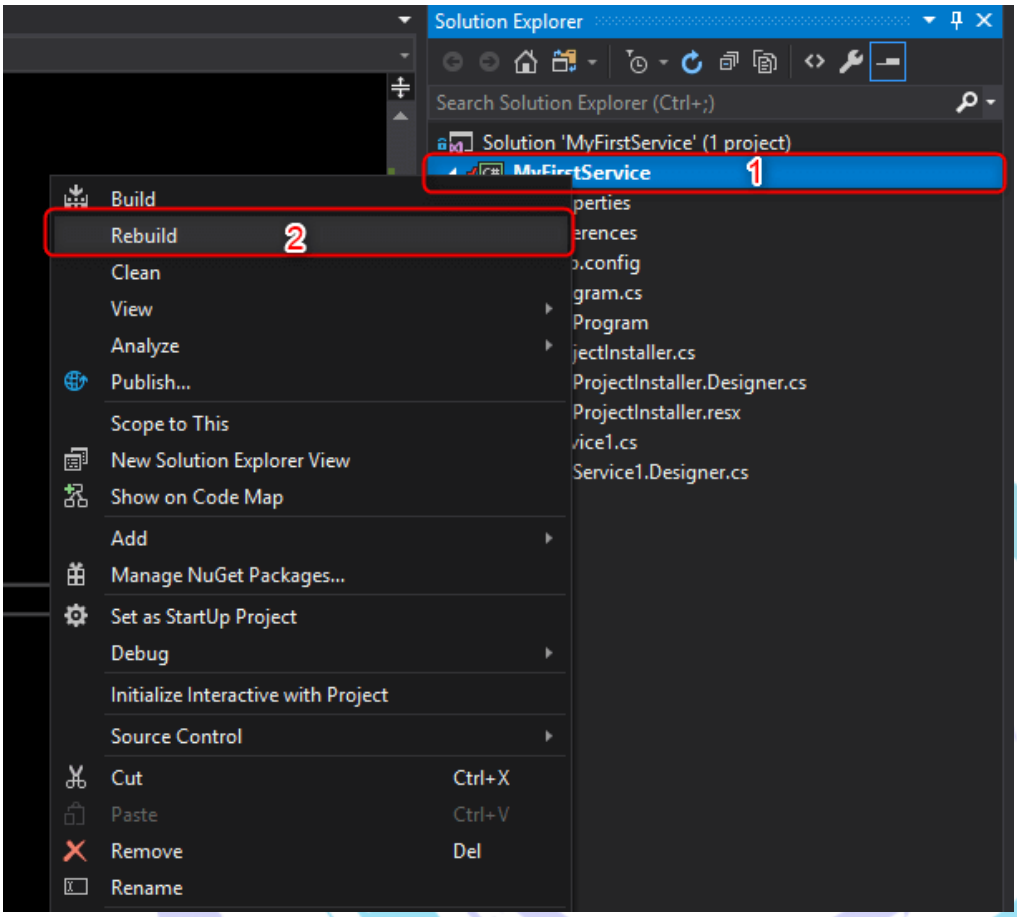
Step 8 :

In this step, we will write the code which gets executed when our service stsrts.



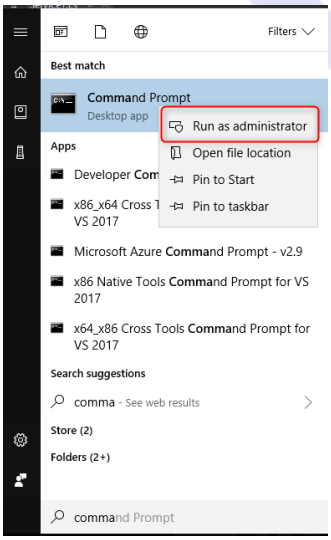
Step 9 :

Rebuild Your Application
Right-click on your project or solution and select Rebuild.



Step 10 :

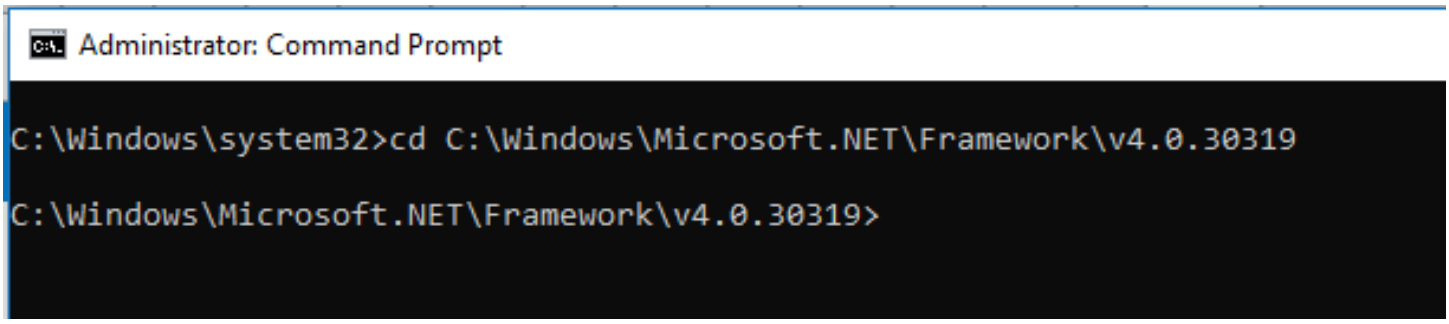
Search "command Prompt" and run the program as an administrator:



Step 11 :

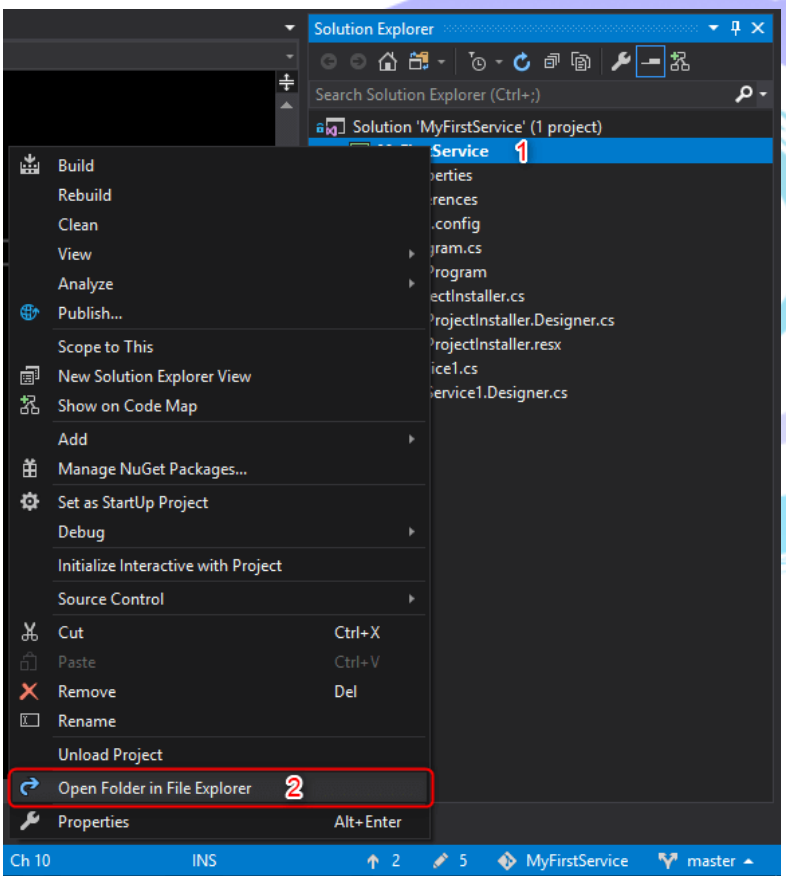
Fire the below command in the command prompt and press Enter.

cd C:\Windows\Microsoft.NET\Framework\v4.0.30319



Step 12 :

Now Go to your project source folder > bin > Debug and copy the full path of of the Windows Service.exe file



Step 13 :

Open the command prompt and fire the below command and press enter.
Syntax

InstallUtil.exe + Your copied path + \your service name + .exe
Our Path

InstallUtil.exe
C:\Users\Marvellous\source\repos\Marvellous\Marvellous\bin\Debug\Marvellous.exe

Step 14 :

Open services by following the below steps:

1. Press Window key + R.
2. Type services.msc
3. Find your Service.