Lab1: Introduction

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IUBAT, Bangladesh

Visual Studio 2019

Open recent

Today

WebApplication4.sln C:\Users\Student\source\repos\WebApplication4	1/2/2020 11:40 AM
WebApplication4 C:\Users\Student\source\repos\WebApplication4	1/2/2020 11:27 AM
WebApplication6.sln C:\Users\Student\source\repos\WebApplication6	1/2/2020 11:27 AM
WebApplication5 C:\Users\Student\source\repos\WebApplication5	1/2/2020 11:23 AM
WebApplication2 C:\Users\Student\source\repos\WebApplication2	1/2/2020 11:20 AM
WebApplication1 C:\Users\Student\source\repos\WebApplication1	1/2/2020 11:18 AM

Get started

Clone or check out code
Get code from an online repository like GitHub or Azure DevOps

Open a project or solution
Open a local Visual Studio project or .sln file

Open a local folder
Navigate and edit code within any folder

Create a new project
Choose a project template with code scaffolding to get started

Continue without code →

Create a new project

Recent project templates

- ASP.NET Core Web Application — C#
- Console App (.NET Core) — C#
- Windows Forms App (.NET Framework) — C#

All languages | All platforms | All project types

Console App (.NET Core)
A project for creating a command-line application that can run on .NET Core on Windows, Linux and MacOS.
C# Linux macOS Windows Console

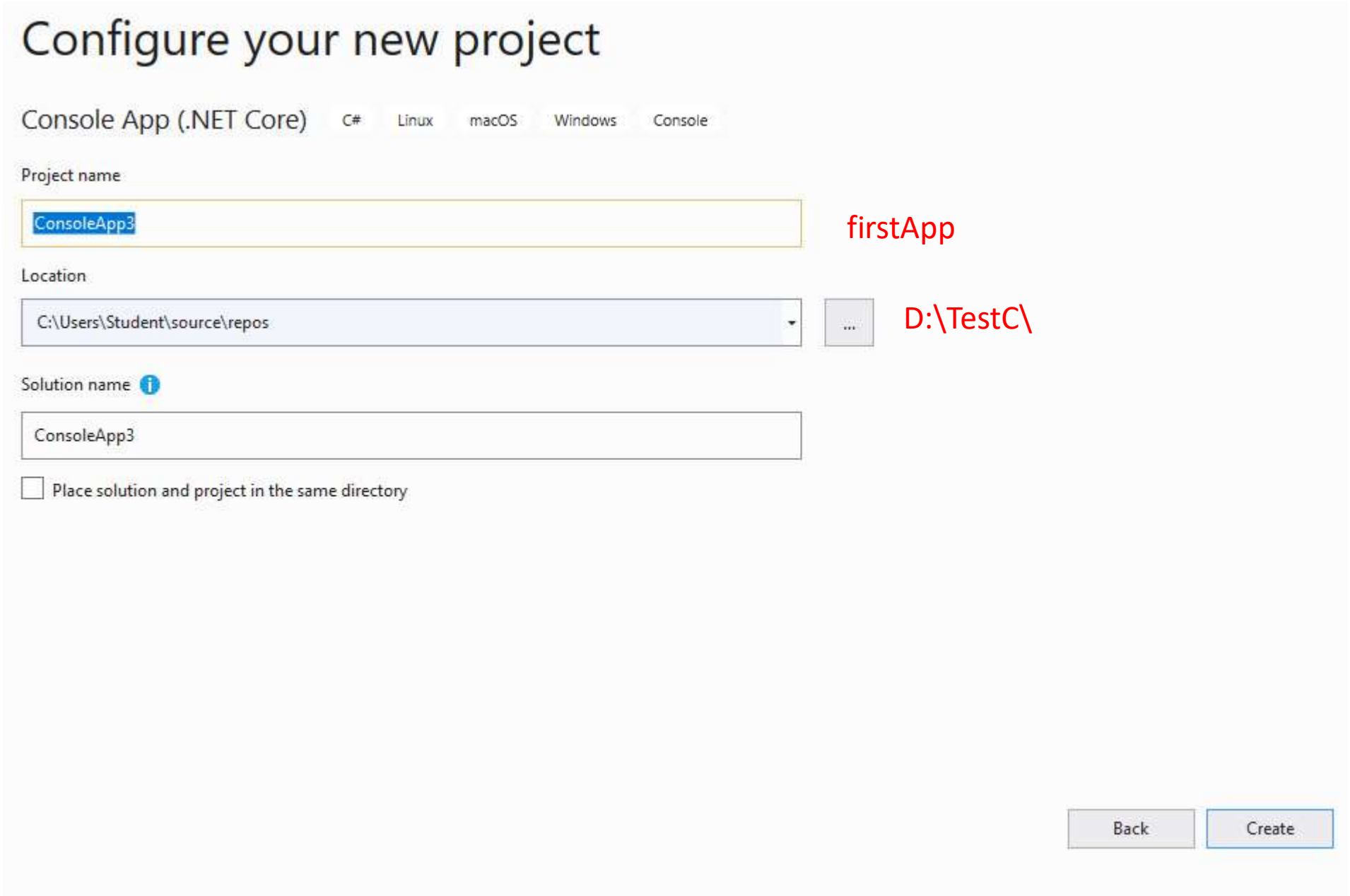
Console App (.NET Core)
A project for creating a command-line application that can run on .NET Core on Windows, Linux and MacOS.
Visual Basic Windows Linux macOS Console

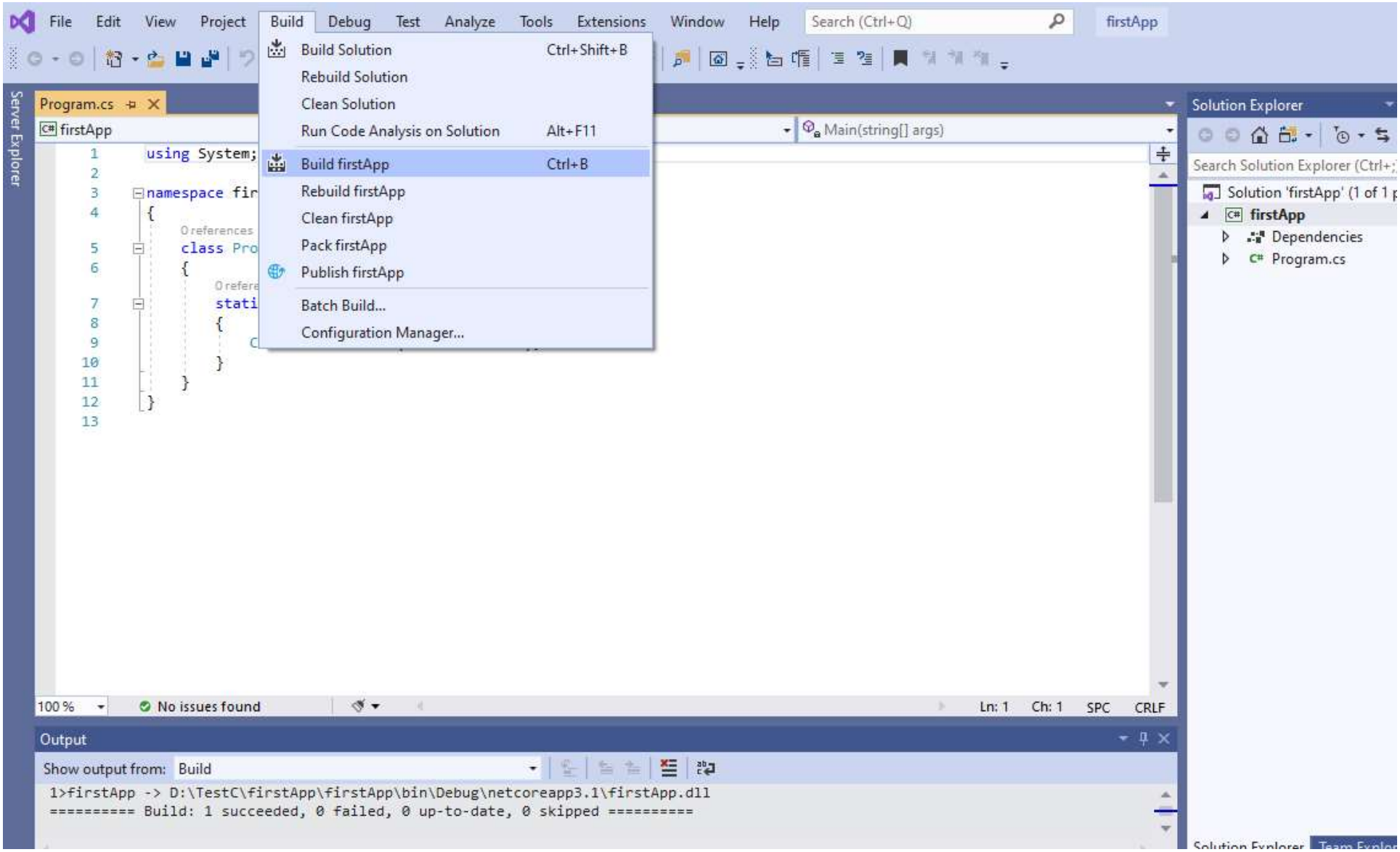
ASP.NET Core Web Application
Project templates for creating ASP.NET Core web apps and web APIs for Windows, Linux and macOS using .NET Core or .NET Framework. Create web apps with Razor Pages, MVC, or Single Page Apps (SPA) using Angular, React, or React + Redux.
C# Linux macOS Windows Cloud Service Web

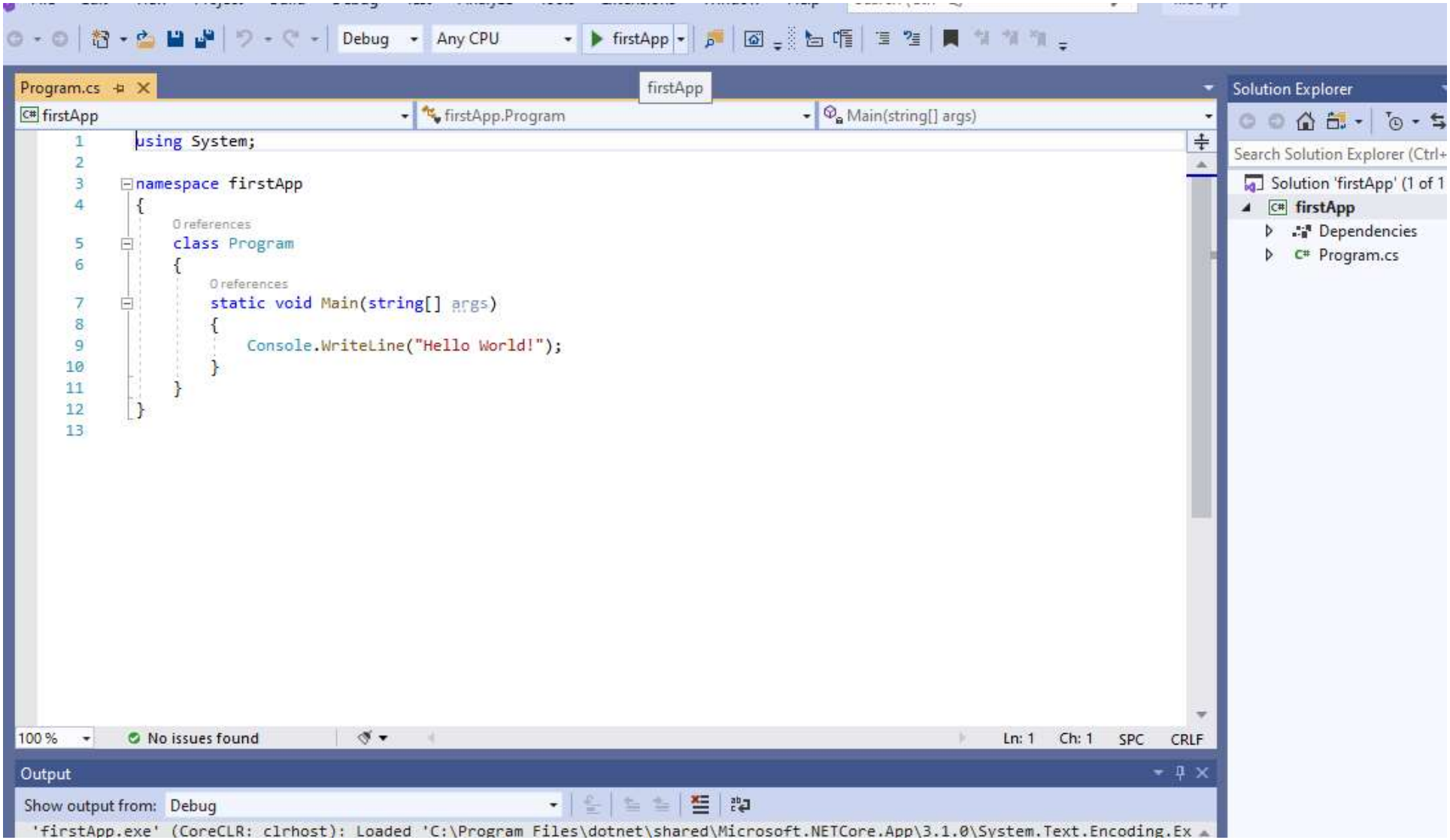
Blazor App
Project templates for creating Blazor apps that that run on the server in an ASP.NET Core app or in the browser on WebAssembly. These templates can be used to build web apps with rich dynamic user interfaces (UIs).
C# Linux macOS Windows Cloud Web

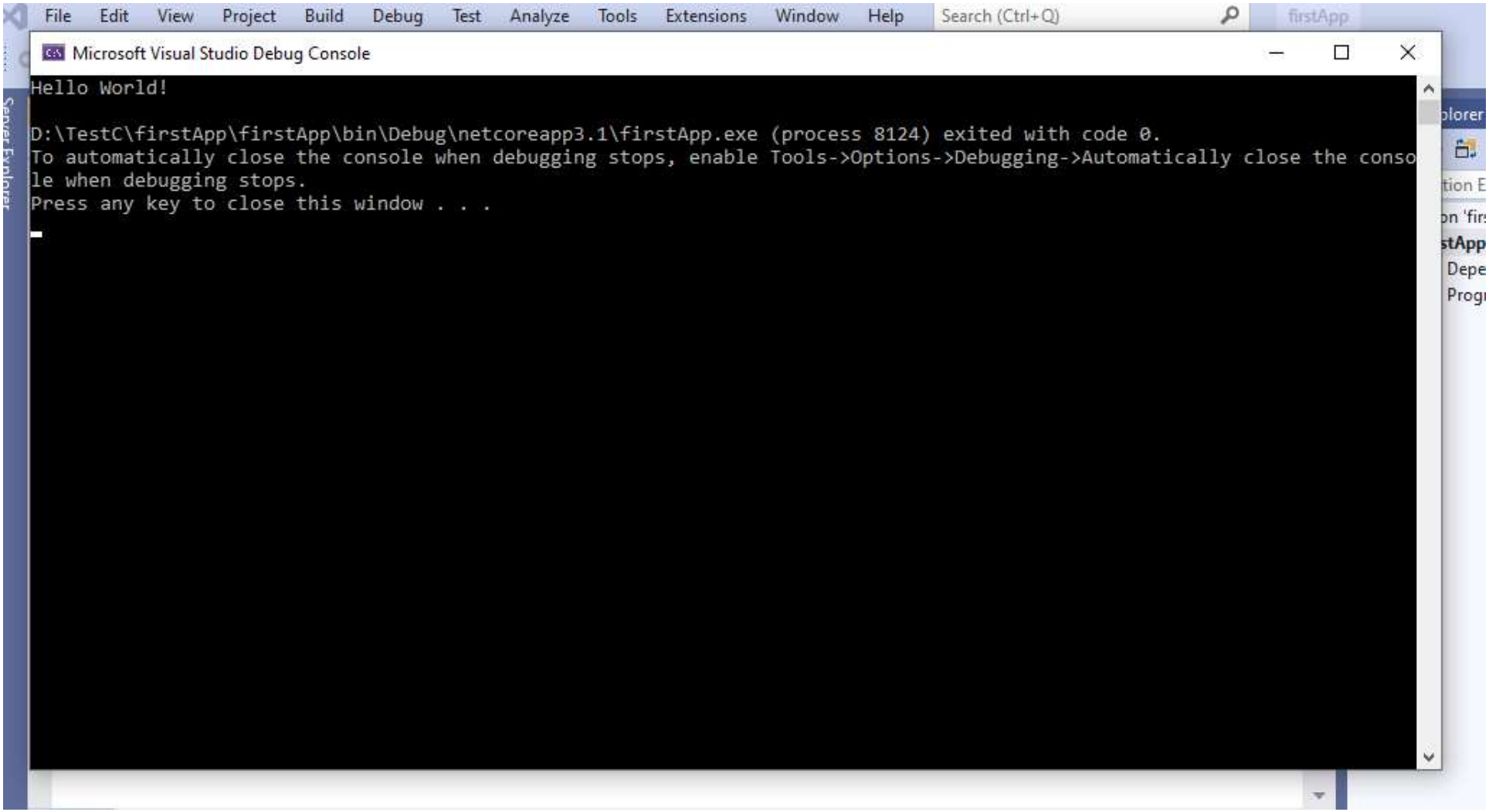
ASP.NET Web Application (.NET Framework)

Back Next


Configure your new project
Console App (.NET Core)
C#
Linux
macOS
Windows
Console
Project name
ConsoleApp3
firstApp
Location
C:\Users\Student\source\repos
...
D:\TestC\
Solution name
ConsoleApp3
Place solution and project in the same directory
Back
Create


File
Edit
View
Project
Build
Debug
Test
Analyze
Tools
Extensions
Window
Help
Search (Ctrl+Q)
firstApp
Build Solution Ctrl+Shift+B
Rebuild Solution
Clean Solution
Run Code Analysis on Solution Alt+F11
Build firstApp Ctrl+B
Rebuild firstApp
Clean firstApp
Pack firstApp
Publish firstApp
Batch Build...
Configuration Manager...
Server Explorer
Program.cs
firstApp
Main(string[] args)
using System;
namespace fir
{
0 references
class Pro
{
0 refere
stati
{
}
}
}
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'firstApp' (1 of 1 p
firstApp
Dependencies
Program.cs
100 %
No issues found
Ln: 1
Ch: 1
SPC
CRLF
Output
Show output from: Build
1>firstApp -> D:\TestC\firstApp\firstApp\bin\Debug\netcoreapp3.1\firstApp.dll
========== Build: 1 succeeded, 0 failed, 0 up-to-date, 0 skipped ==========


Debug
Any CPU
firstApp
Program.cs
firstApp
firstApp.Program
Main(string[] args)
using System;
namespace firstApp
{
0 references
class Program
{
0 references
static void Main(string[] args)
{
Console.WriteLine("Hello World!");
}
}
}
Solution Explorer
Search Solution Explorer (Ctrl+
Solution 'firstApp' (1 of 1
firstApp
Dependencies
Program.cs
100 %
No issues found
Ln: 1
Ch: 1
SPC
CRLF
Output
Show output from:
Debug
'firstApp.exe' (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.0\System.Text.Encoding.Ex


File Edit View Project Build Debug Test Analyze Tools Extensions Window Help
Search (Ctrl+Q)
firstApp
Microsoft Visual Studio Debug Console
Hello World!
D:\TestC\firstApp\firstApp\bin\Debug\netcoreapp3.1\firstApp.exe (process 8124) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso
le when debugging stops.
Press any key to close this window . . .
Server Explorer

Problem Solves -1

- Read an integer input from the console, and print reverse of that number in console.
- You can call a reverse() method from Main() and pass the integer values.
- Reverse() method will return the reverse value to Main().
- Main() will catch and print the value.

```
using System;

namespace ConsoleApp
{
   public class Program
   {
      public static int reverse(int N, int E)
      {
                int P=0;
                int M=(int)Math.Pow(10,E-1);
                while(N!=0)
                {
                          P+=(N%10)*M;
                          N=N/10;
                          M=M/10;
                }
        return P ;
      }
     }
}
```

```
public class program2
{
                public static void Main()
                {
                     Console.WriteLine("Hello World");
                      int i;
                      i=Convert.ToInt32(Console.ReadLine());
                Console.WriteLine(ConsoleApp.Program.reverse(i, 3));
                }
}
```

Problem Solves -2

- Take 10 inputs from console and print their average in console.
- You should use separate function to take input and find average.
- Main() will call those functions and print the average.

```
type [ ] array_name= new type[size];
int [] sample = new int [10];

int [ ] sample;
sample=new int [10];

int Size= sample.Length;
```

Problem Solves -3

- Write a program so that if user gives input ‘d’ or ‘D’; ‘k’ or ‘K’ and ‘s’ or ‘S’ the program will print Dhaka, Khulna and Sylhet respectively.
- You need to use switch statement.
- Dhaka, Khulna and Sylhet will be stored in string array.