



EXPLORER

OPEN EDITORS

GROUP 1

- Program.cs BDSA2018.Lecture01

GROUP 2

- ProgramTests.cs BDSA2018.Lecture01.Tests

Program.cs

```
1 using System;
2
3 namespace BDSA2018.Lecture01
4 {
5     1 reference
6     public class Program
7     {
8         1 reference
9         public static void Main(string[] args)
10        {
11            Console.WriteLine("Hello World!");
12        }
13    }
```

ProgramTests.cs

```
1 using System;
2 using System.IO;
3 using Xunit;
4
5 namespace BDSA2018.Lecture01.Tests
6 {
7     0 references | Run All Tests | Debug All Tests
8     public class ProgramTests
9     {
10        0 references | Run Test | Debug Test
11        [Fact]
12        public void Main_prints_Hello
13        {
14            // Arrange
15            var writer = new StringWriter();
16            Console.SetOut(writer);
17
18            // Act
19            Program.Main(new string[0]);
20
21            // Assert
22            var output = writer.GetStringBuilder().ToString();
23            Assert.Equal("Hello World!", output);
24        }
25    }
```

PROBLEMS **OUTPUT** **DEBUG CONSOLE** **TERMINAL**

Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\2.1.3\System.Private.CoreLib.dll'. Skipped loading symbols. The debugger option 'Just My Code' is enabled.

Loaded 'C:\Users\rasmus\l\Desktop\BDSA2018.Lecture01\BDSA2018.Lecture01\bin\Debug\netcoreapp2.1\BDSA2018.Lecture01.dll'. Skipped loading symbols. The debugger option 'Just My Code' is enabled.

Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\2.1.3\System.Runtime.dll'. Skipped loading symbols. The debugger option 'Just My Code' is enabled.

Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\2.1.3\System.Console.dll'. Skipped loading symbols. The debugger option 'Just My Code' is enabled.

Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\2.1.3\System.Threading.dll'. Skipped loading symbols. The debugger option 'Just My Code' is enabled.

Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\2.1.3\System.Runtime.Extensions.dll'. Skipped loading symbols. The debugger option 'Just My Code' is enabled.

Hello World!

The program '[15304] BDSA2018.Lecture01.dll' has exited with code 0 (0x0).

OUTLINE

DATA ACCESS AND ENTITY FRAMEWORK CORE

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Agenda

Aside: .NET Conf 2019

Last weeks exercise (Test data)

Old school SQL

NuGet

The IDisposable interface

SQL Injection

Entity Framework Core

.NET Conf 2019

Free Virtual Conference

23-25 September 2019

<https://www.dotnetconf.net/>

.NET Core 3.0 launch

- Entity Framework Core 3.0 launch
- ASP.NET Core 3.0 launch

From next week we use .NET Core 3.0!

Last weeks exercise

Wizards test data

<https://mockaroo.com/>

Setup SQL LocalDB (Windows)

PowerShell (Elevated):

```
PS> choco install sqllocaldb -y
```

Update SQL Server if needed:

<https://www.microsoft.com/en-us/download/details.aspx?id=56128>

PowerShell:

```
PS> sqllocaldb create
```

Setup SQL Server (Docker)

```
sudo docker pull mcr.microsoft.com/mssql/server:2017-latest
```

```
sudo docker run -e "ACCEPT_EULA=Y" \  
  -e "SA_PASSWORD=<YourStrong@Passw0rd>" \  
  -p 1433:1433 --name sql1 \  
  -d mcr.microsoft.com/mssql/server:2017-latest
```

Old school SQL

```
dotnet add package System.Data.SqlClient
```

NuGet

<https://www.nuget.org>

```
dotnet add package ...
```

```
dotnet list package --outdated
```