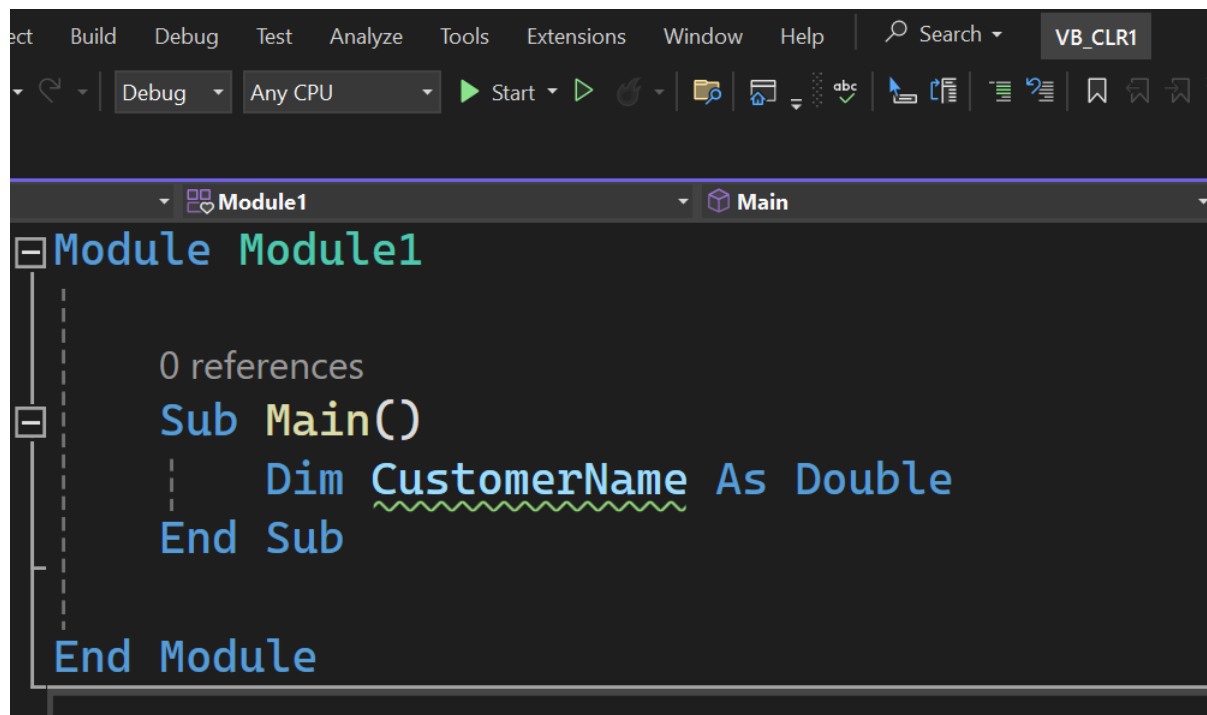


PT LAB:5 (CLR)

➤ VB:



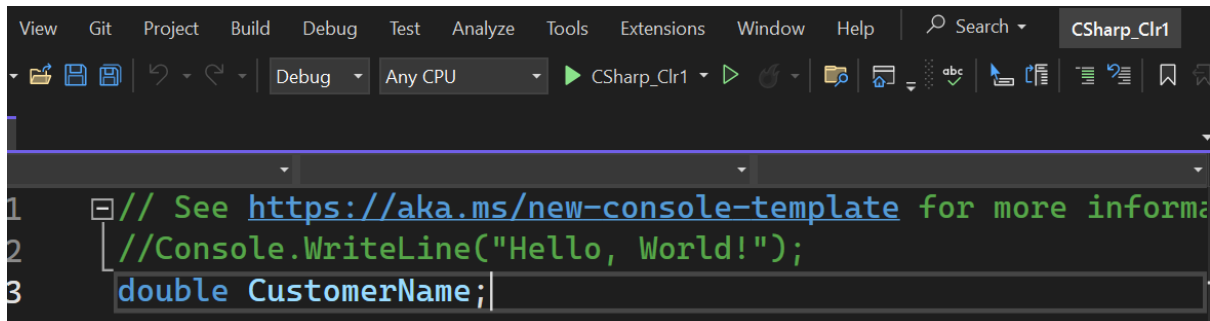
The screenshot shows the Visual Studio IDE with a VB project named 'VB_CLR1'. The 'Module1' window is active, displaying the following code:

```
Module Module1

    0 references
    Sub Main()
        Dim CustomerName As Double
    End Sub

End Module
```

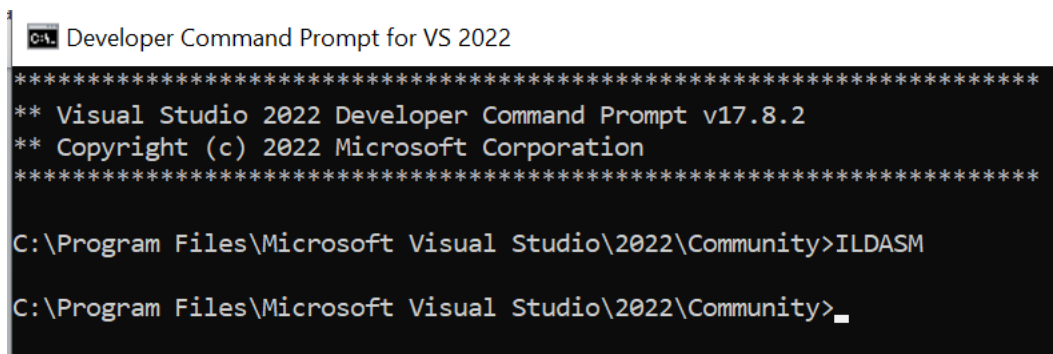
➤ C#:



The screenshot shows the Visual Studio IDE with a C# project named 'CSharp_Clr1'. The code editor displays the following code:

```
1 // See https://aka.ms/new-console-template for more information
2 //Console.WriteLine("Hello, World!");
3 double CustomerName;
```

➤ Developer Command Prompt for VS 2022:



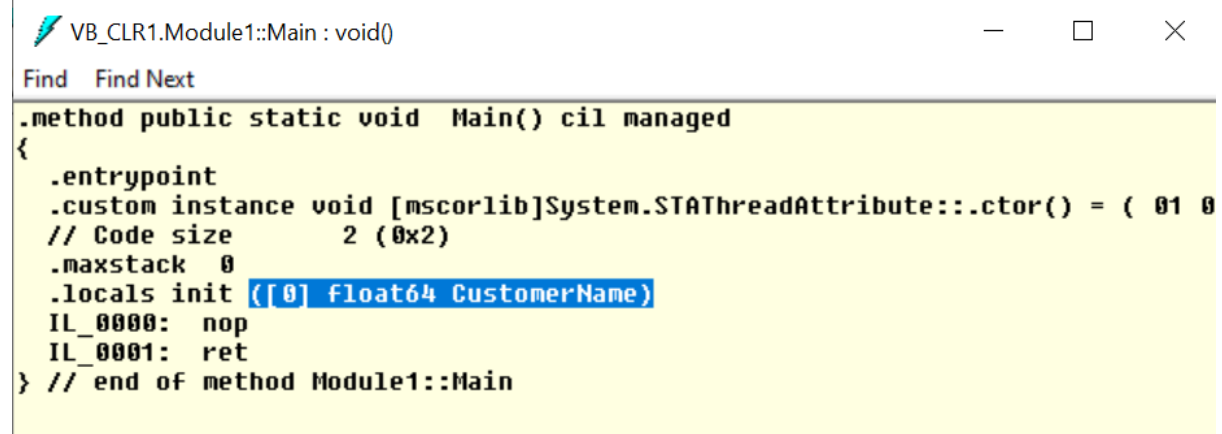
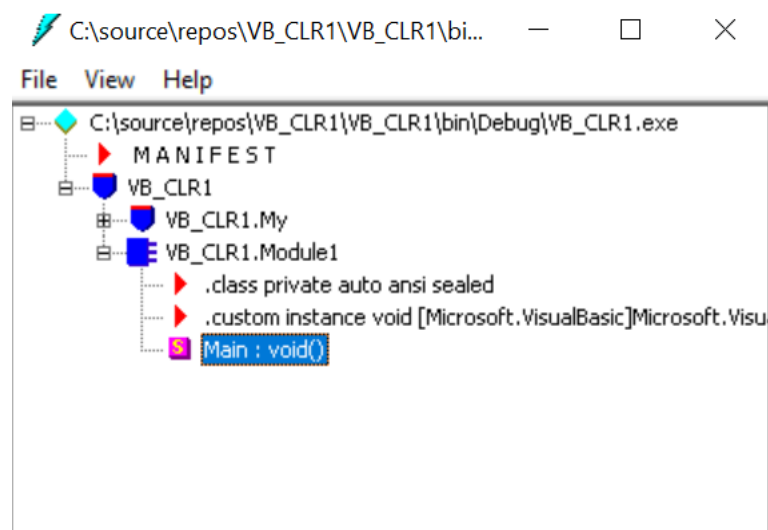
The screenshot shows the Developer Command Prompt for VS 2022. The prompt displays the following text:

```
C:\Program Files\Microsoft Visual Studio\2022\Community>ILDASM

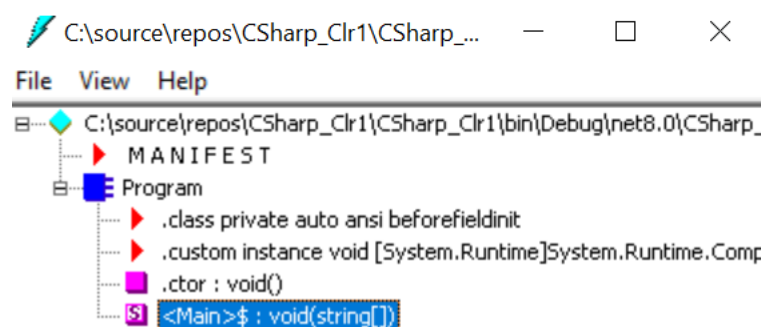
C:\Program Files\Microsoft Visual Studio\2022\Community>_
```

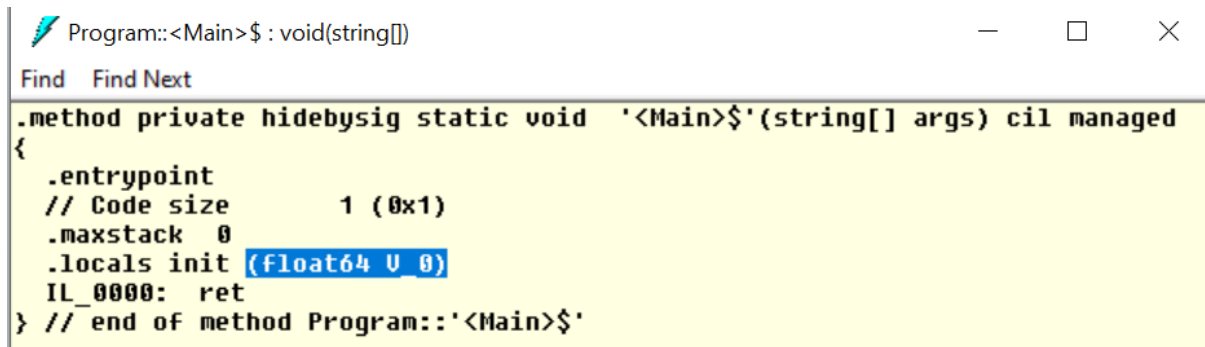
PT LAB:5 (CLR)

VB:



C#:





```
Program::<Main>$ : void(string[])
Find Find Next
.method private hidebysig static void '<Main>$'(string[] args) cil managed
{
    .entrypoint
    // Code size      1 (0x1)
    .maxstack 0
    .locals init (float64 V_0)
    IL_0000: ret
} // end of method Program::'<Main>$'
```

Discussion:

Here, in our PROGRAMMING TECHNOLOGY (PT)-Lab 5, we explored the Common Language Runtime (CLR) in .NET, which is like the "brain" behind the scenes that helps run our programs smoothly.

Moreover, in this lab, we dived into the Common Language Runtime (CLR) in .NET using C# and VB.NET. We learned how to declare a variable with the double data type in both languages. In C#, it's as simple as writing "double" followed by the variable name, while in VB.NET, we use "Dim" and specify "As Double" after the variable name. This hands-on experience helped us see the language differences in declaring double variables and reinforced our understanding of how CLR supports various languages within the .NET framework.

Conclusion:

Hence, this lab helped us to understand the practical aspects of how the "CLR" makes our DOT NET applications work effectively and securely.