







We are installing:

Visual Studio Code

Visual Studio Community 2017



Hello World example

Let's write something to the console

Let's say hi to our friend (string concatenation)



Our first code

```
using System;
namespace ConsoleApplication
  public class Program
       public static void Main()
           Console.WriteLine("Hello World!");
```

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Compiler

- 1. From source code to machine code
- 2. Machine code
 - a. Directly executed by CPU
 - b. Executed by a virtual machine (intermediary step)
- 3. Languages like this: C# (.NET), Java, C/C++



Interpreted languages (scripting)

There is no compilation step, code is executed directly, step by step and without any optimization

Languages: Powershell, Bash





How a variable translates to machine code?

Typed vs dynamic



Hello World v2

Let's read a variable from the console and use a condition to check if the number is bigger than 100 or not



Hello World v3

Mathematical operations separated into functions: addition and substraction





Lets display the numbers from 1 to 10





Lets verify if a number is even or odd



Exercises @Home - 1

Read 2 number from the keyboard and create mathematical operations for

- -division
- -multiplication
- -on division if the number is 0 display a message that it is not possible
- -calculate the minimum and maximum



Exercises @Home - 2

Read a number from the keyboard and

- -it is the temperature in C, convert it to F
- -it is the temperature in F, convert it to C
- -it is a number of days, convert it to years, months, weeks and days

Conventions - year: 365 days, month: 30 days, week: 7 days, use only numbers bigger than 1000