

C# Fundamentals

Preparation 1 - introduction

Welcome!

- This short power point presentation is designed in a way that will give you a basic understanding of the concept of a programming language.



The concept of a prog. language

- Why a programming language
- Similarities with our language
- Grammar

The maximum speed of my car
is 55.

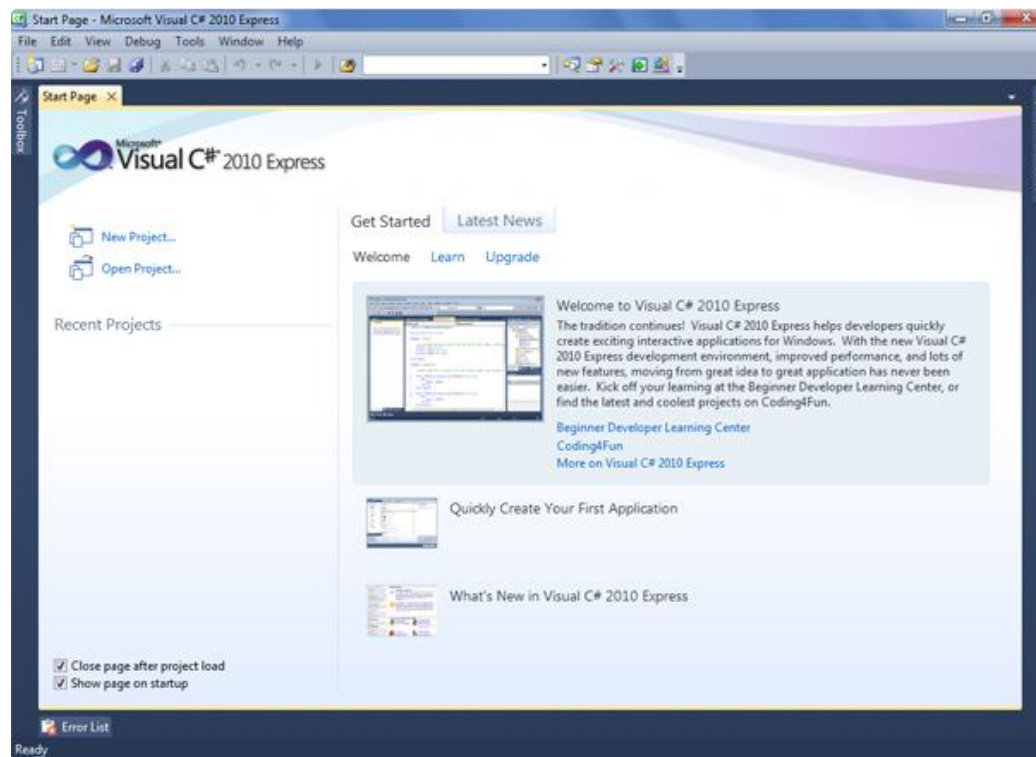
```
Car.Speed.Maximum = 55;
```

Visual Studio

1. You need to download Visual Studio IDE from www.microsoft.com/express/vcsharp/

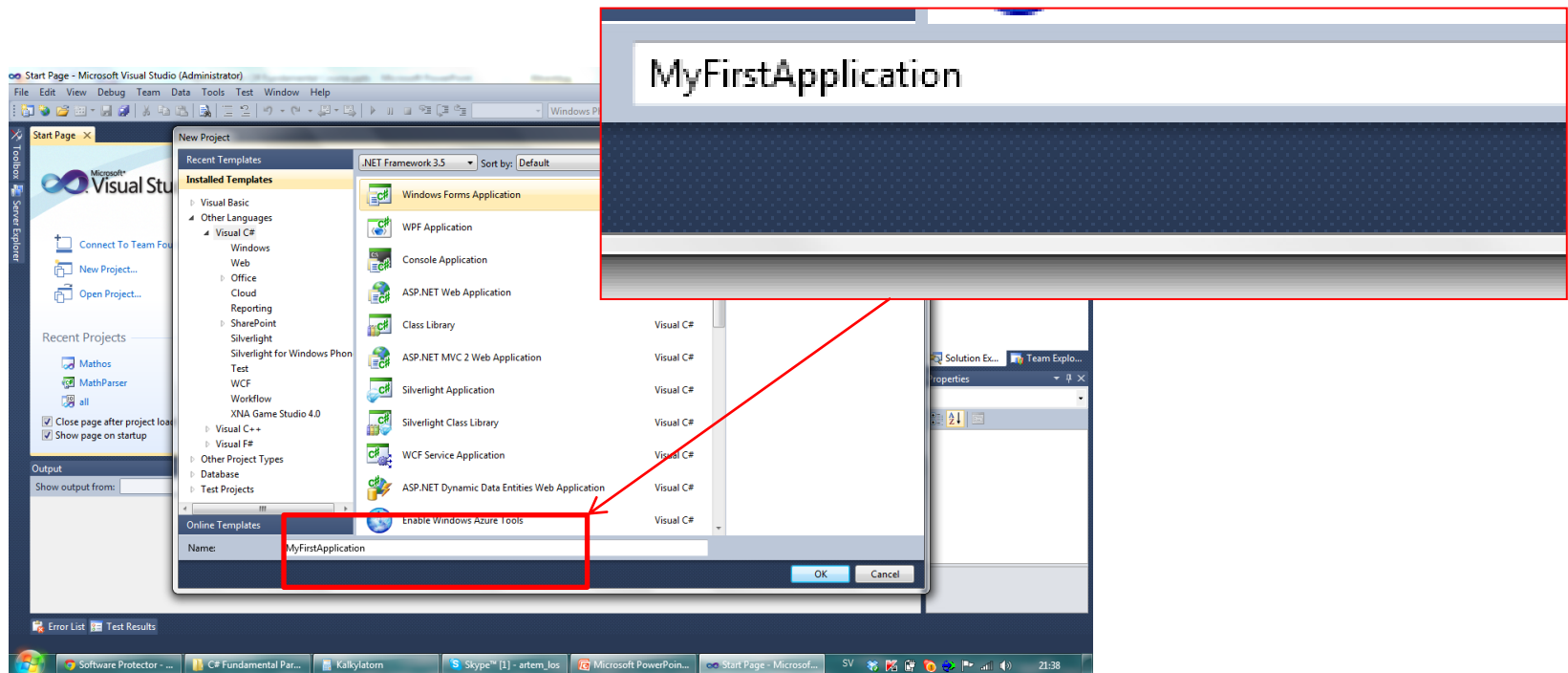
Visual Studio IDE

- Start Visual Studio

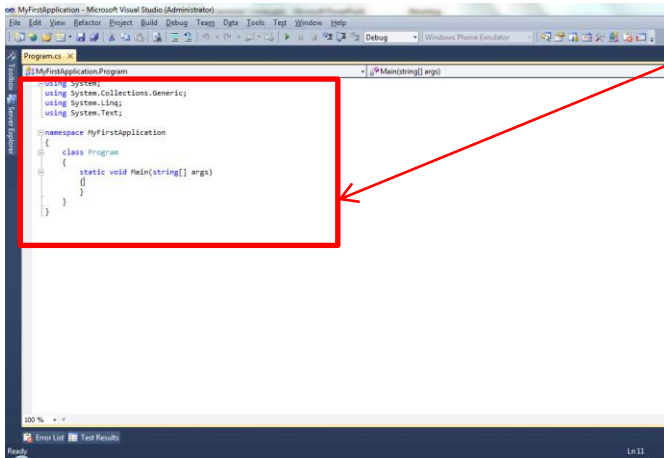


Your project

- Press File > New Project



You new application



```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace MyFirstApplication
{
    class Program
    {
        static void Main(string[] args)
        {
        }
    }
}
```

Your application

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace MyFirstApplication
{
    class Program
    {
        static void Main(string[] args)
        {
        }
    }
}
```

We will mainly work with this part of the code!

Hello World

- The 'first' program every programmer is creating, during a Step by Step course is as following:

```
static void Main(string[] args)
{
    Console.WriteLine("Hello World");
}
```

Hello World 2

- This is another way of writing the same program:

```
static void Main(string[] args)
{
    string helloMessage = "Hello World";
    Console.WriteLine(helloMessage);
}
```

Greetings!

- Can you tell what this code is doing?

```
static void Main(string[] args)
{
    Console.WriteLine("What is your name?");
    string name = Console.ReadLine();

    Console.WriteLine("Hello " + name);

    Console.ReadLine();
}
```

Summary

This is what you hopefully have learned! 😊

```
Console.WriteLine("hi"); // writes on the screen
```

```
string name = "world"; // saves text into memory
```

```
string input = Console.ReadLine(); // saves text from the screen
```

```
Console.ReadLine(); // pauses the program
```



Thank you for watching!

- Next lecture is at {date}.
- Any questions, please let me know:
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