

Programming in C++

Duration time: 90 minutes

Introduction

Requirements

- Basic skill in operating computer.
- Working with Windows System.

Aim

The main goal is to write first program in C language. Next the program will be compiled (translated into the computer language) and executed.

The additional aim of this lab is to familiarize yourself with the (IDE *Integrated Development Environment*) that will be used during classes.

Task 1 - Log in

During the labs we will work on Windows System. It is possible to write programs using Linux or other operating system because there are multi-platform development tools. During the labs we will use Microsoft Visual Studio.

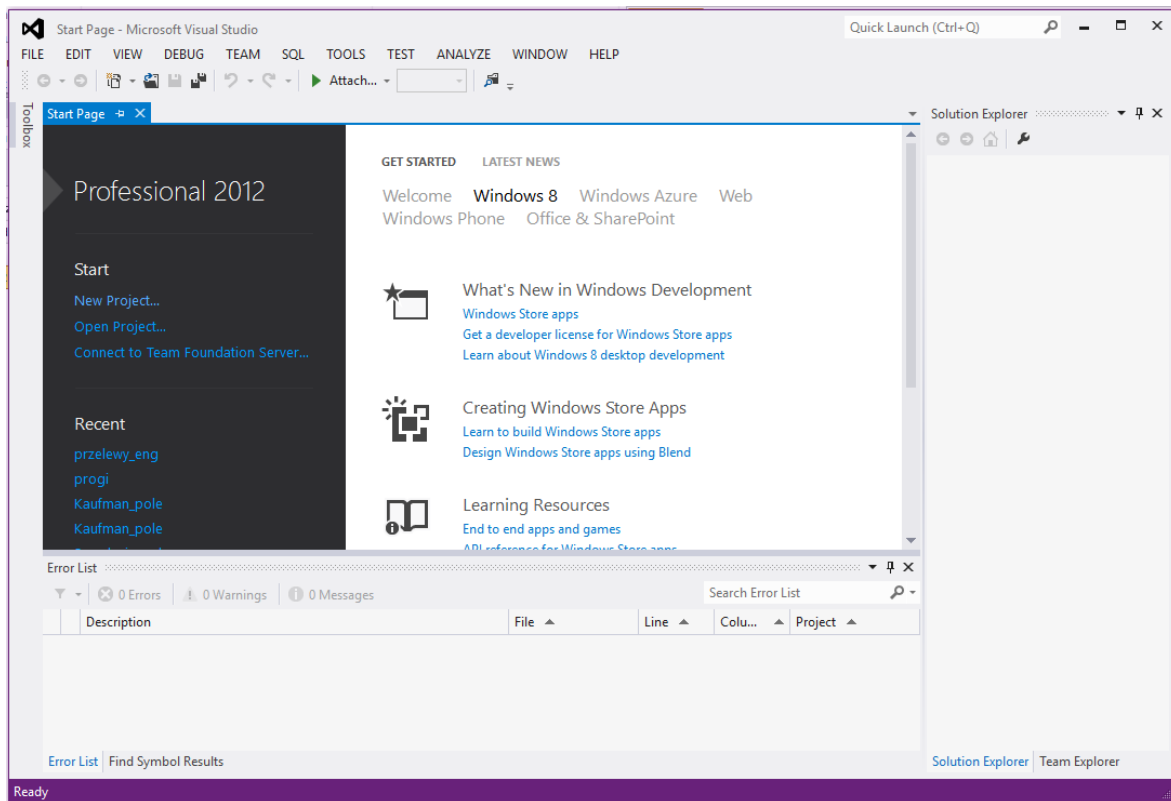
Log in to the system. The user is *Maciej* and the password is *Cisco2013*.

Task 2 - first program written using Microsoft Visual Studio

There are many Integrated Development Environments, like: Code Blocks, Visual Studio, Eclipse, Kdevelop, QT develop, Anjuta. Those Environments has different possibilities and licenses. For the learning programing in C/C++ the environment is not so important. Some features, like for example code completion and code highlighting makes programming more

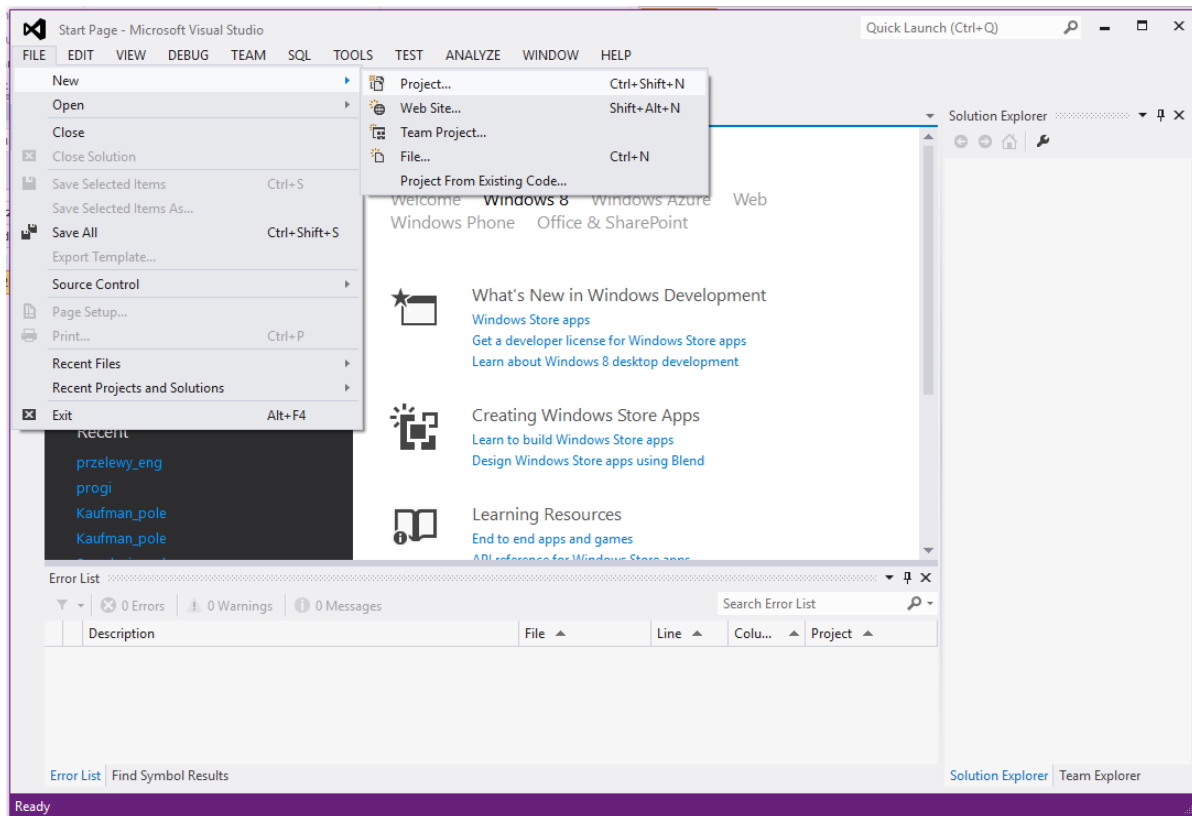
Launch the Microsoft Visual Studio

Microsoft Visual Studio is in menu start. Find the appropriate icon or write in search filed „Visual Studio,,.

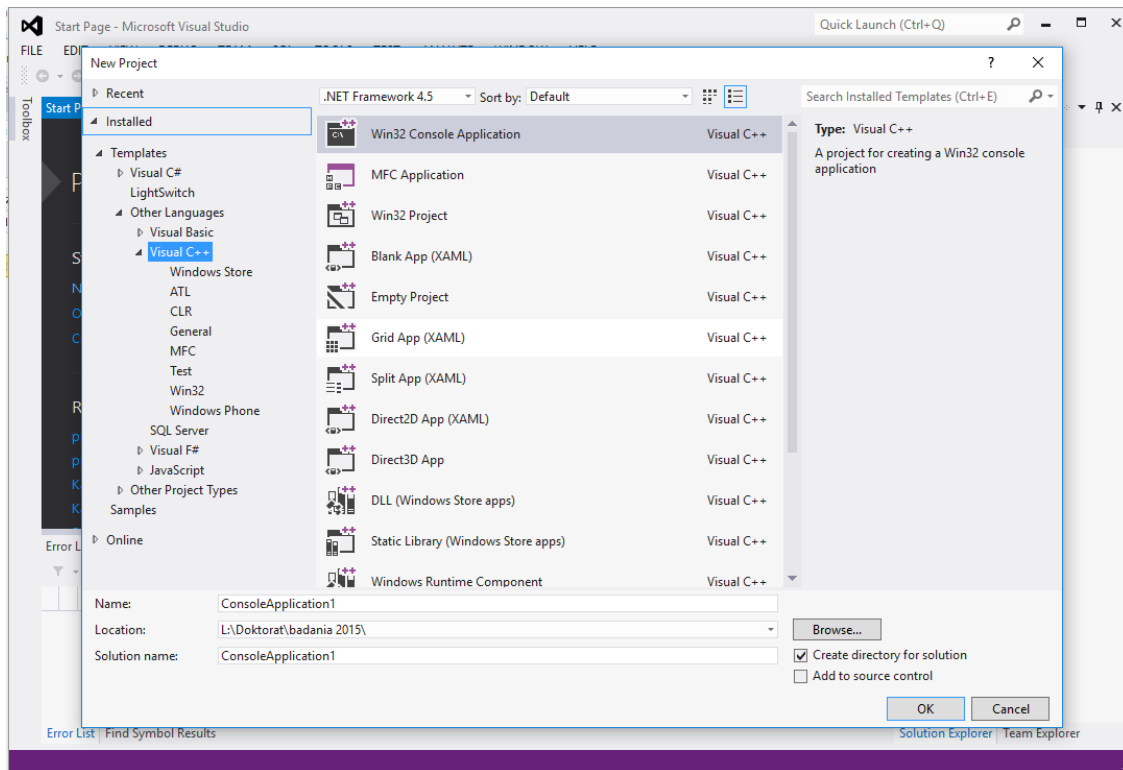


Create new project

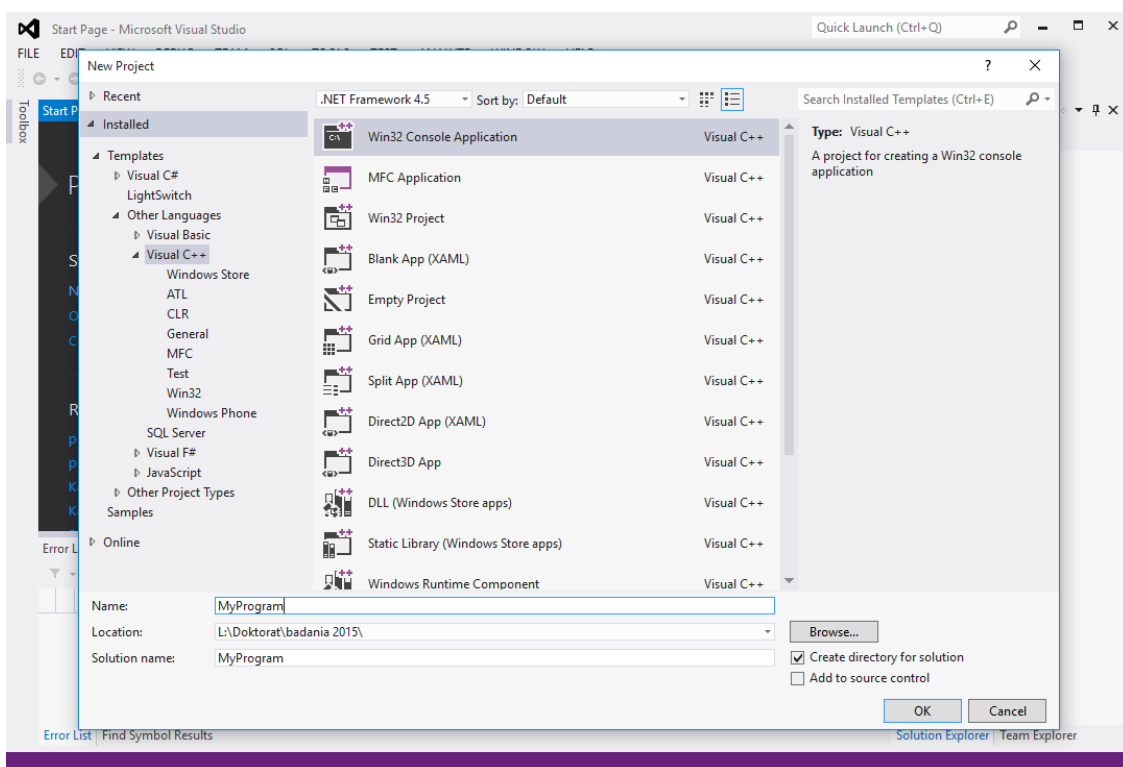
Go to the Microsoft Visual Studio menu. Choose **file**→**new**→**project**.



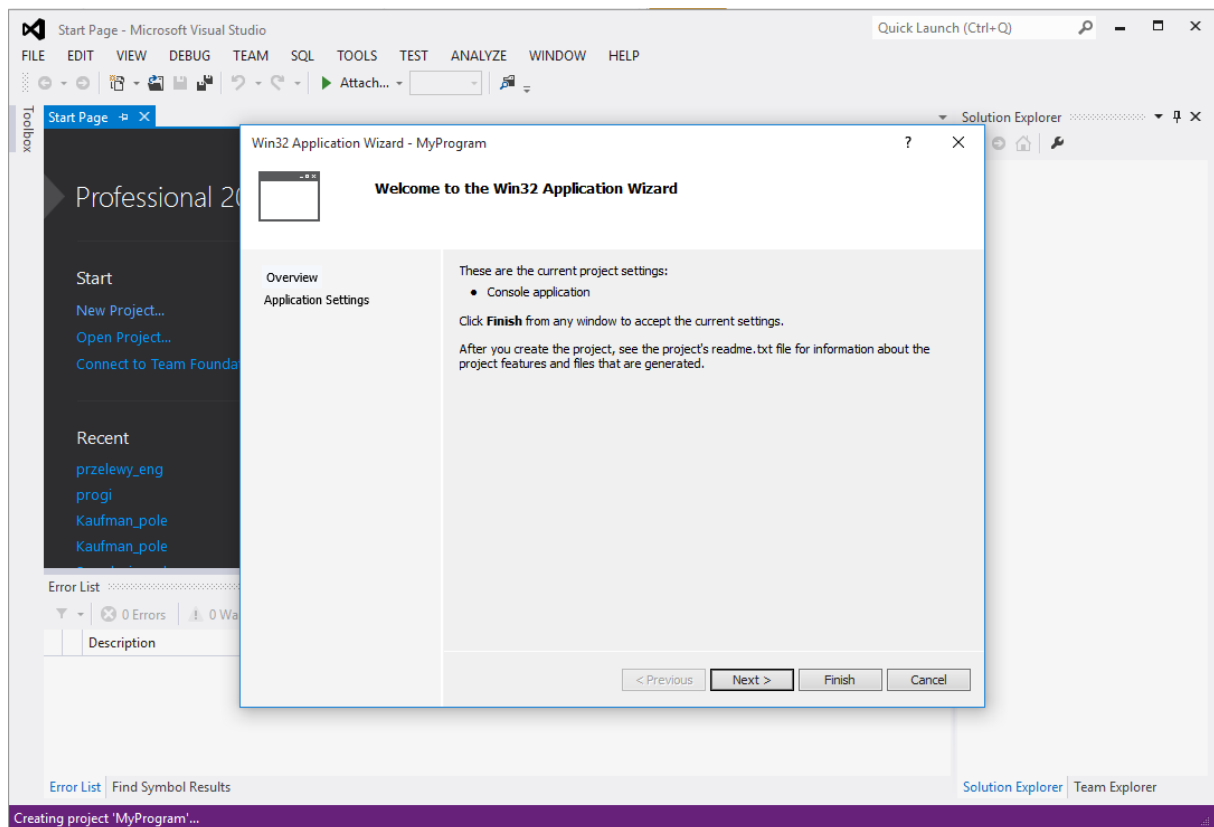
Choose the programming language „Visual C++” then choose the "Win32 Console Application".



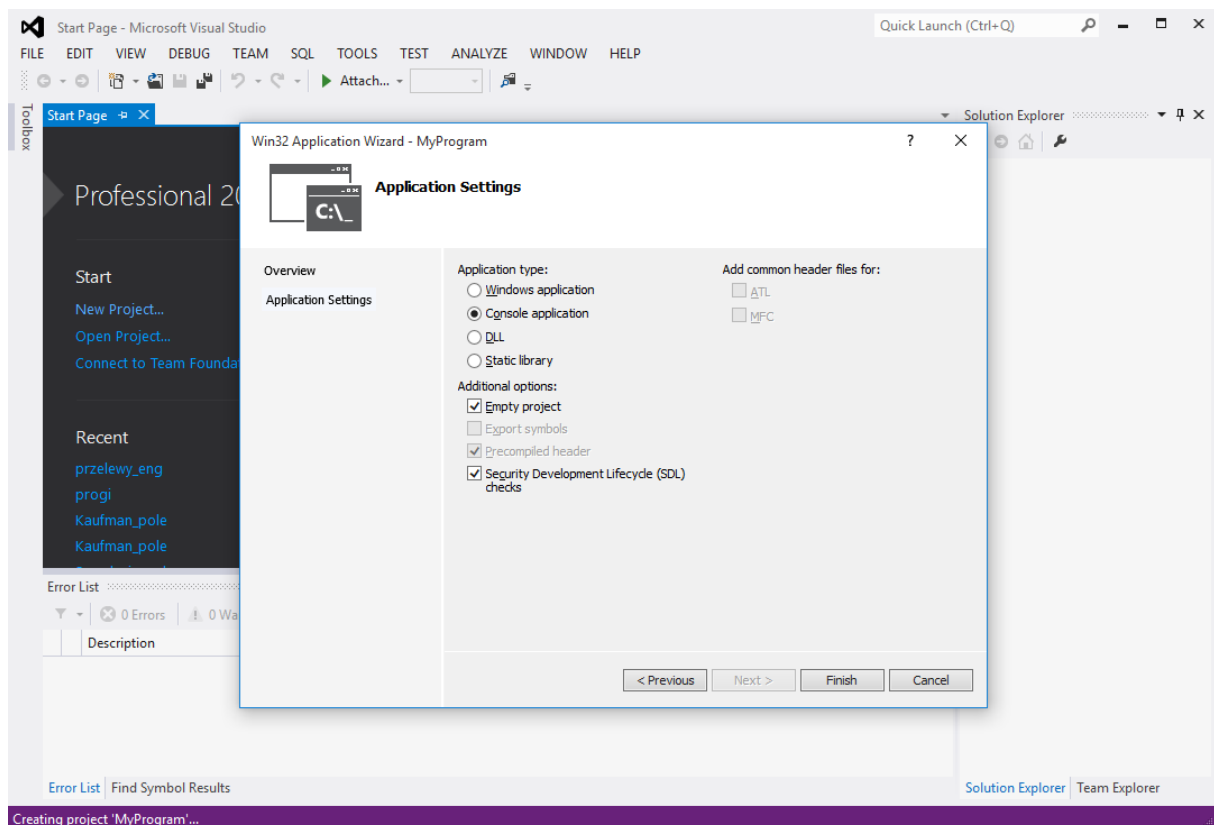
Set the project name (Figure shows setting for the project called "MyProgram") and press OK.



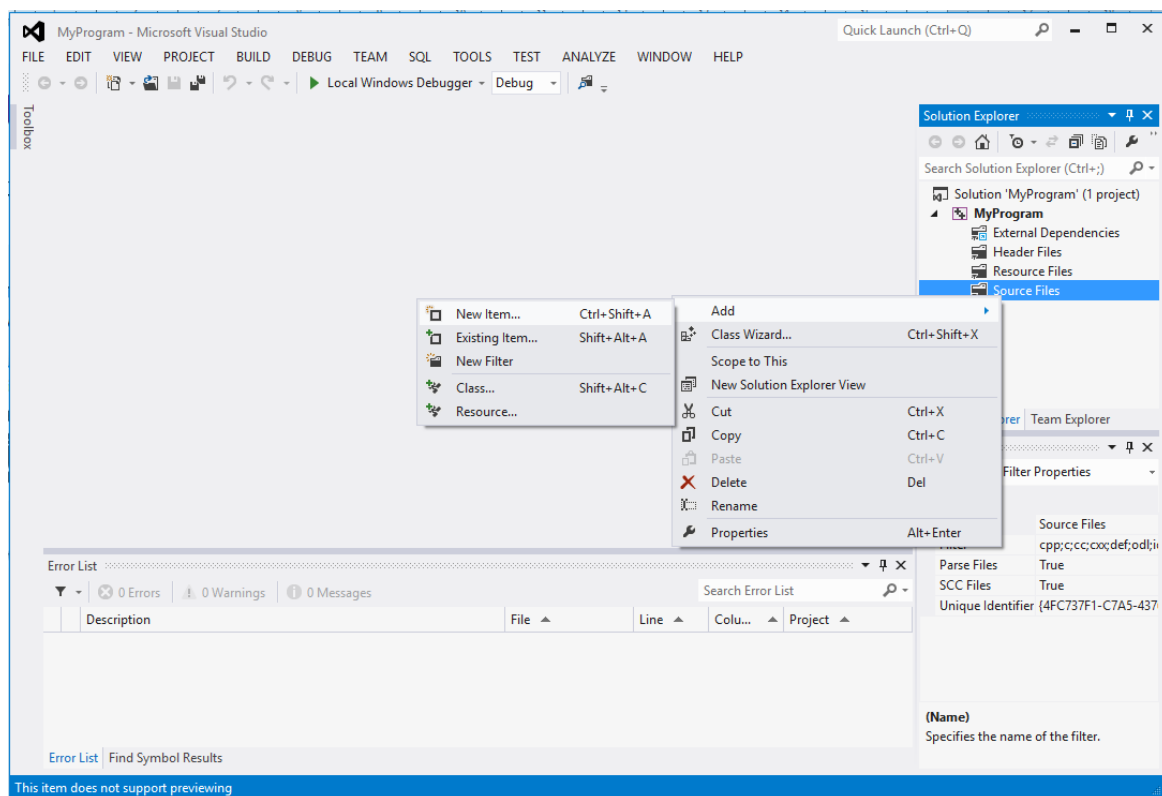
Press the Next button.



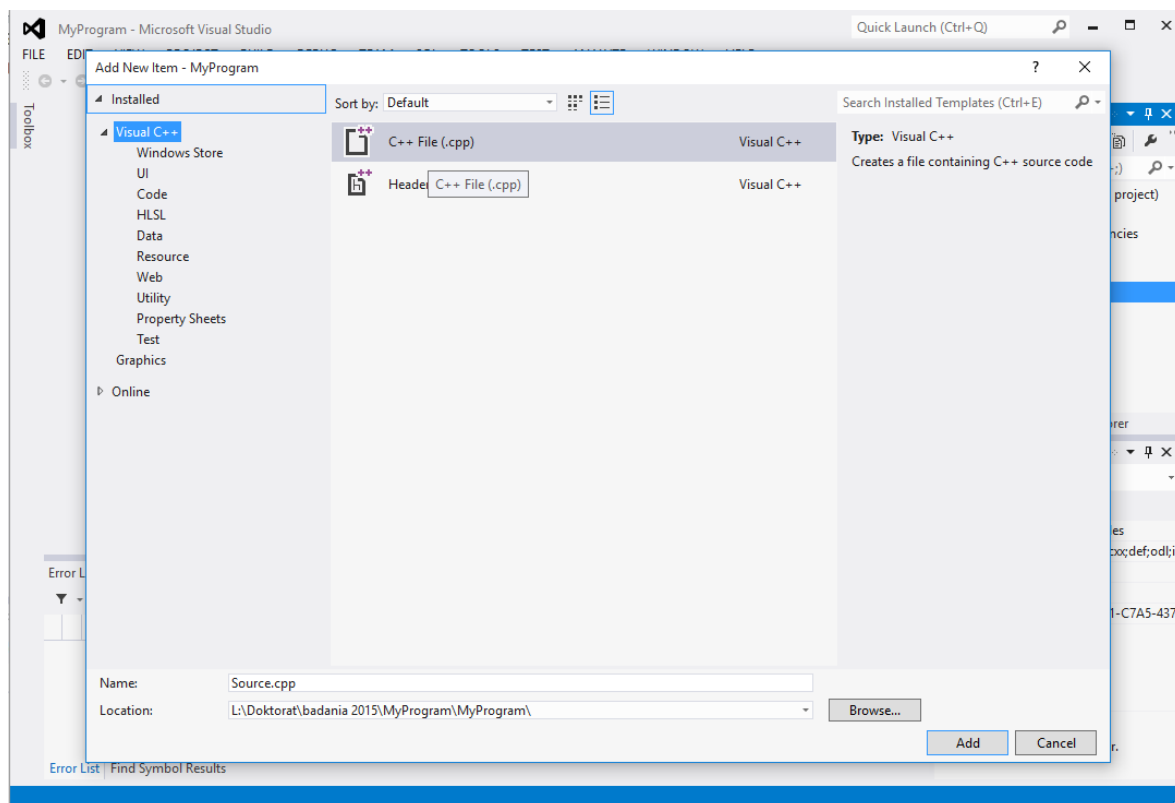
Choose Empty Project and press Finish.



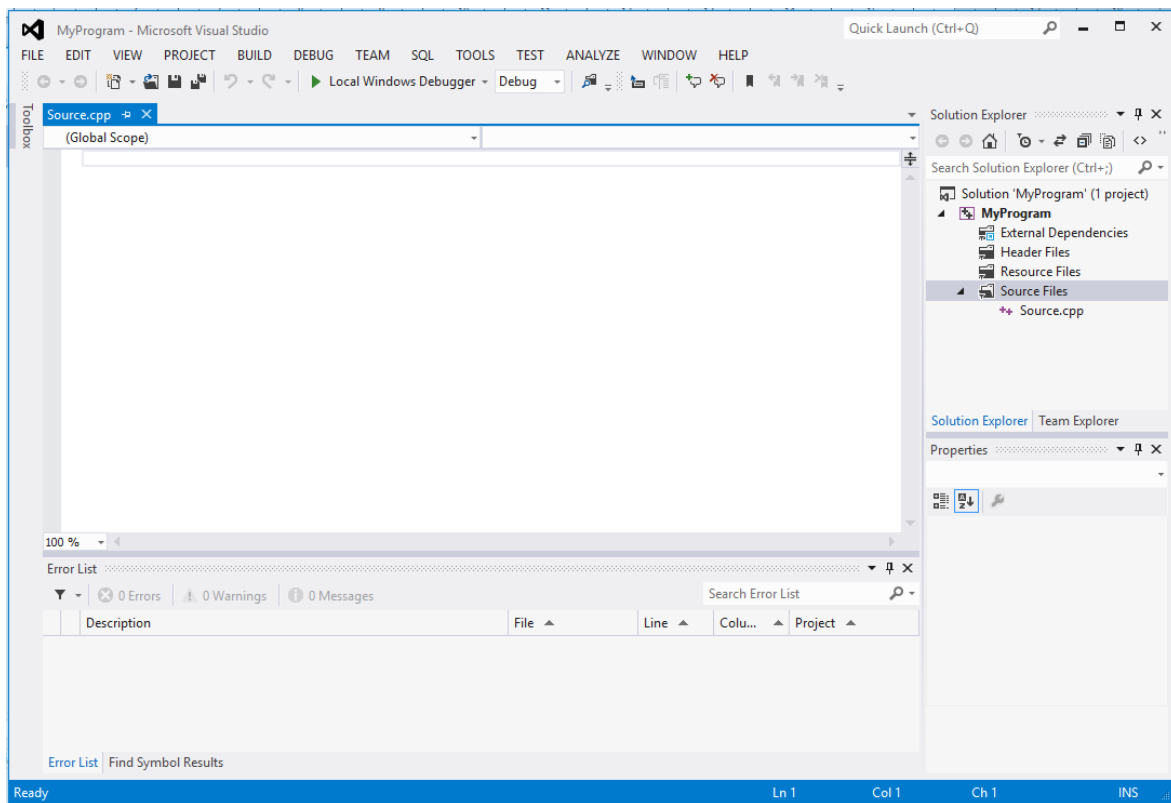
Right-click in Solution Explorer on Source Files and choose **Add->New Item**.



Choose C++ File and press Add.



Now you can write your program.



Write a simple program which show in Windows Console words "Hello World!". Next press the green triangle to run Local Windows Debugger and start the program.

