

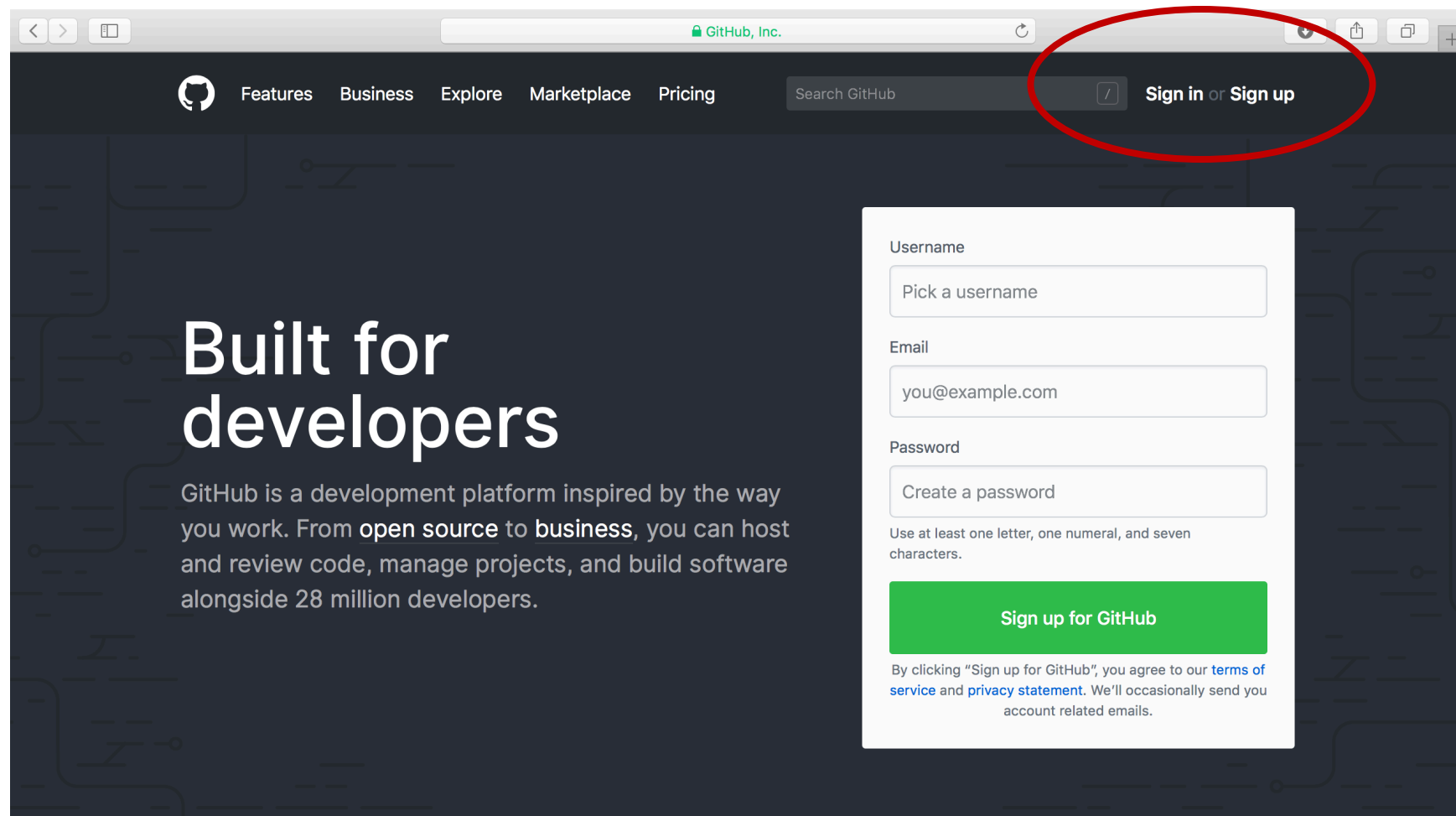
# GitHub. Инструкция для студентов. Начало освоения Git и GitHub.

<https://git-scm.com/book/ru/v1/Введение-Основы-Git>

Что такое Git?

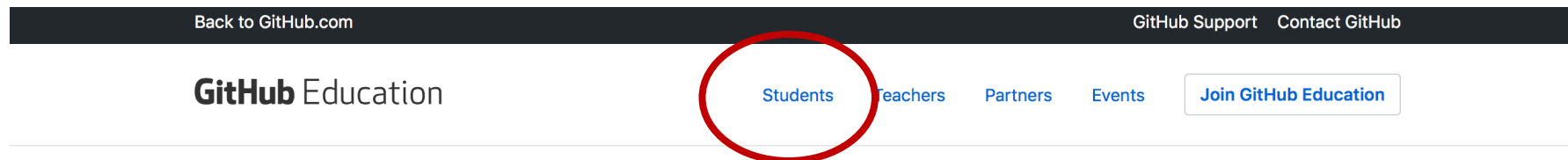
<https://github.com>

- Основная страница (здесь вы будете логиниться)
- Но сначала надо зарегистрироваться
- Для студентов есть особая версия



# Регистрация для студентов

## <https://education.github.com/pack>



[Home](#) / [Students](#) / Student Developer Pack

## Learn to ship software like a pro.

There's no substitute for hands-on experience, but for most students, real world tools can be cost prohibitive. That's why we created the GitHub Student Developer Pack with some of our partners and friends: to give students free access to the best developer tools in one place so they can learn by doing.

Горденко [M.K.mgordenko@hse.ru](mailto:M.K.mgordenko@hse.ru)

Get your Pack

[Home](#) / Students

# With GitHub Education, your work will speak for itself.

Build your portfolio, grow your network, and level up your skills.

[Join GitHub Education](#)



Горденко М.К., [mgordenko@hse.ru](mailto:mgordenko@hse.ru)





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**Get your Pack**

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Sign in to **GitHub**  
to continue to **GitHub Education**

Username or email address

Password

[Forgot password?](#)

Sign in

New to GitHub? [Create an account.](#)

# Join GitHub

The best way to design, build, and ship software.



**Step 1:**  
Create personal account



**Step 2:**  
Choose your plan



**Step 3:**  
Tailor your experience

## Create your personal account

**Username**

This will be your username. You can add the name of your organization later.

**Email address**

We'll occasionally send updates about your account to this inbox. We'll never share your email address with anyone.

**Password**

Use at least one lowercase letter, one numeral, and seven characters.

## Verify account

### You'll love GitHub

**Unlimited** collaborators

**Unlimited** public repositories

- ✓ Great communication
- ✓ Frictionless development
- ✓ Open source community



### Completed

Set up a personal account



### Step 2:

Choose your plan



### Step 3:

Tailor your experience

## Choose your personal plan



Unlimited public repositories for free.



**Unlimited private repositories** for \$7/month. [\(view in RUB\)](#)

Don't worry, you can cancel or upgrade at any time.



### Help me set up an organization next

Organizations are separate from personal accounts and are best suited for businesses who need to manage permissions for many employees.

[Learn more about organizations](#)



### Send me updates on GitHub news, offers, and events

Unsubscribe anytime in your email preferences. [Learn more](#)

Continue

### Both plans include:

- ✓ Collaborative code review
- ✓ Issue tracking
- ✓ Open source community
- ✓ Unlimited public repositories
- ✓ Join any organization



# Are you a student?

The GitHub Student Developer Pack is only available to students aged 13 or older.

Before you receive access to the offers we need to [verify that you are a student](#).

Teachers, researchers, faculty, staff, and other educational users can [get free and discounted access to GitHub](#), but are not eligible for the Pack. If you're not a student, you can still request a regular GitHub for education discount.

[Yes, I'm a student](#)

[No, I'm not a student but would still like a discount](#)

## GitHub

© 2018

### Features

Code review  
Project management  
Integrations  
Community  
Documentation

### Platform

Atom  
Electron  
GitHub Desktop  
Developers

### Community

Personal  
Open source  
For Business  
For Education  
Sponsorships

### Company

About  
Blog  
Customers  
Careers  
Press

### Resources

Contact  
Help  
Status  
Terms  
Privacy

# Join GitHub Education

Discounted and free plans are available for educational use.

- Заполняете все поля
- E-mail обязательно в домене @edu.hse.ru
- School name - National Research University Higher School of Economics
- Планы использования – for education

[Tell us what you need](#) [Tell us about you](#)

**Name**

**Verify academic status**

**Select your school-issued email address**  
  

[+ Add an email address](#) or [upload proof of your current school affiliation](#)

**Upload Validation**

Drop file here or click to upload.

Please upload an image of your school ID, academic transcript, or other proof of affiliation. Please make sure that at least one date that demonstrates your current academic status is clearly visible.

**School name**

**Graduation year**  

2018 ▾

**How do you plan to use GitHub?**

Please note, your request cannot be edited once it has been submitted, so please verify your details for accuracy before sending them to us.

Submit request

Горденко М.К., mgordenko@hse.ru

10

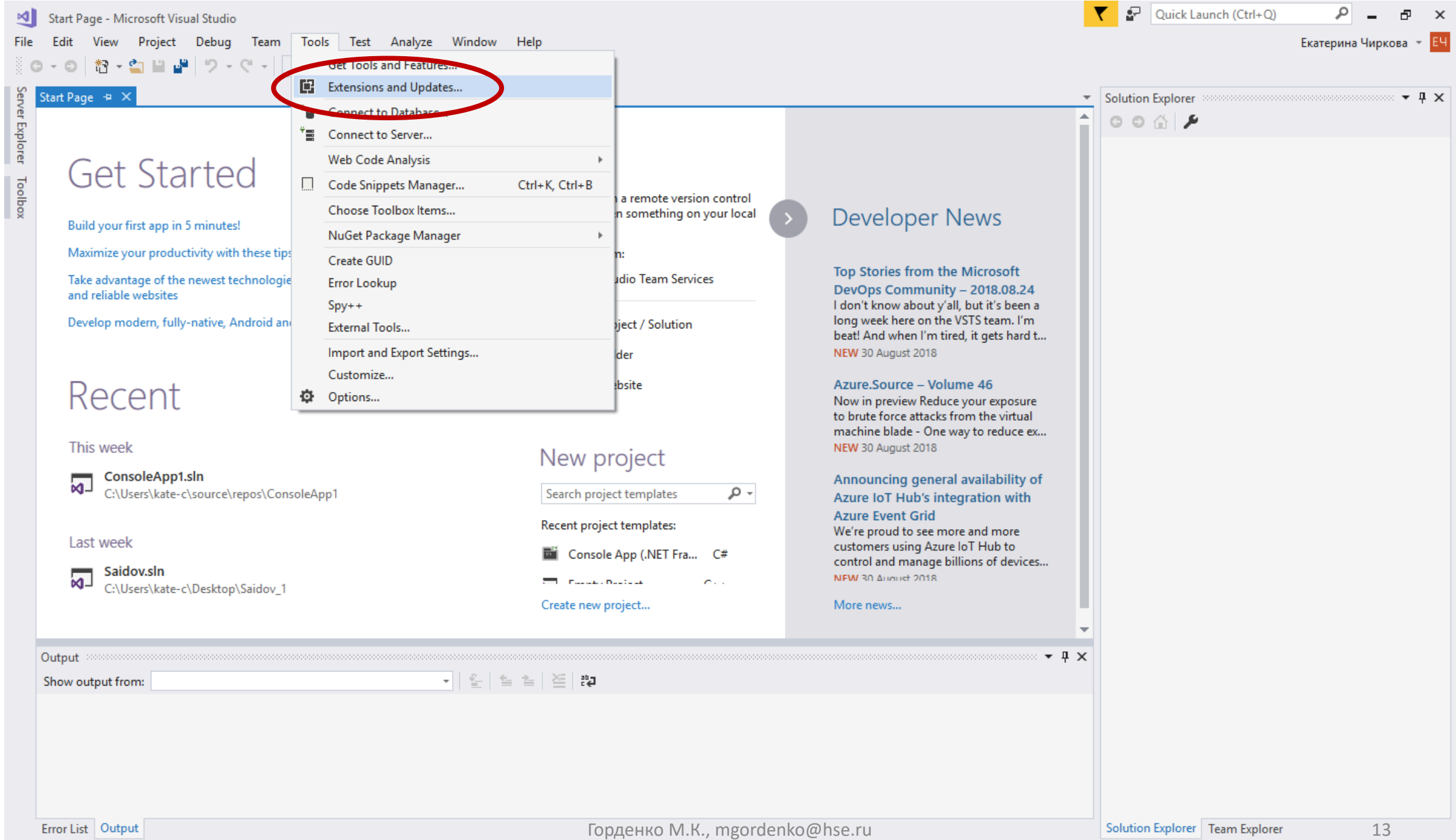
# Thanks for submitting!

Be sure to check your email. If you don't hear from us within the hour, you should receive an email from us in fewer than **5 days**. Have an Octotastic day!

❗ If you have allowed [your coupon](#) to expire and require immediate access you may follow [these directions](#) to make any [locked](#) private repositories public.

# После этого настраиваем Visual Studio

- Инструкции на следующей странице
- <https://msdn.microsoft.com/ru-ru/dn275834.aspx> - материалы по теме
- <https://www.youtube.com/watch?v=SqarOBqllpU&t=64s> видео-туториал (учетная запись у вас уже есть!, нужно установить расширение, после, создать репозиторий – это можно сделать и из Visual Studio)
- Можете посмотреть это видео [https://www.youtube.com/watch?v=Nw2tfO44\\_9E&t=61s](https://www.youtube.com/watch?v=Nw2tfO44_9E&t=61s)



Start Page

Server Explorer  
Toolbox

# Get Started

Build your first app in 5 minutes!

Maximize your productivity with these tips

Take advantage of the newest technologies and reliable websites

Develop modern, fully-native, Android and iOS apps

## Recent

This week

**ConsoleApp1.sln**  
C:\Users\kate-c\source\repos\ConsoleApp1

Last week

**Saidov.sln**  
C:\Users\kate-c\Desktop\Saidov\_1

## New project

Search project templates

Recent project templates:

Console App (.NET Framework) C#

Empty Project C#

[Create new project...](#)



## Developer News

Top Stories from the Microsoft

DevOps Community – 2018.08.24

I don't know about y'all, but it's been a long week here on the VSTS team. I'm beat! And when I'm tired, it gets hard t...

NEW 30 August 2018

[Azure.Source – Volume 46](#)

Now in preview Reduce your exposure to brute force attacks from the virtual machine blade - One way to reduce ex...

NEW 30 August 2018

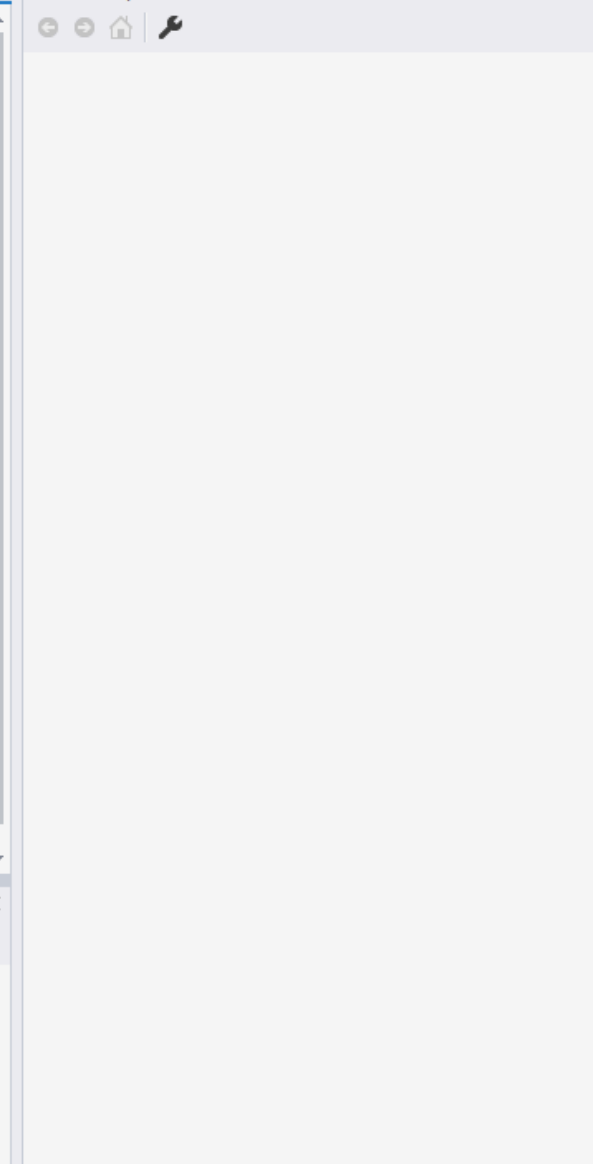
[Announcing general availability of Azure IoT Hub's integration with Azure Event Grid](#)

We're proud to see more and more customers using Azure IoT Hub to control and manage billions of devices...

NEW 30 August 2018

[More news...](#)

Solution Explorer



Output

Show output from:



▶ Installed

◀ Online

▶ Visual Studio Marketplace

▶ Updates

▶ Roaming Extension Manager

Sort by: Most Downloads ▾

Search (Ctrl+E)

**GitHub Extension for Visual Studio**

A Visual Studio Extension that brings the GitHub Flow into Visual Studio.

[Download](#)**SQLite for Universal Windows Platform**

SQLite is a software library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine.

**Azure Data Lake and Stream Analytics Tools**

An integrated development environment for Azure Data Lake and Stream Analytics application development.

**Azure Functions and Web Jobs Tools**

Tools for creating and publishing Azure Functions and Web Jobs

**SQLite for Windows Runtime**

SQLite is a software library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine.

**Microsoft Analysis Services Projects**

Microsoft Analysis Services projects provide project templates and design surfaces for building professional data models hosted in SQ...

**Microsoft Visual Studio 2017 Installer Projects**

This official Microsoft extension provides support for Visual Studio Installer Projects in Visual Studio 2017.

**PowerShell Tools for Visual Studio 2017**

A set of tools for developing and debugging PowerShell scripts and

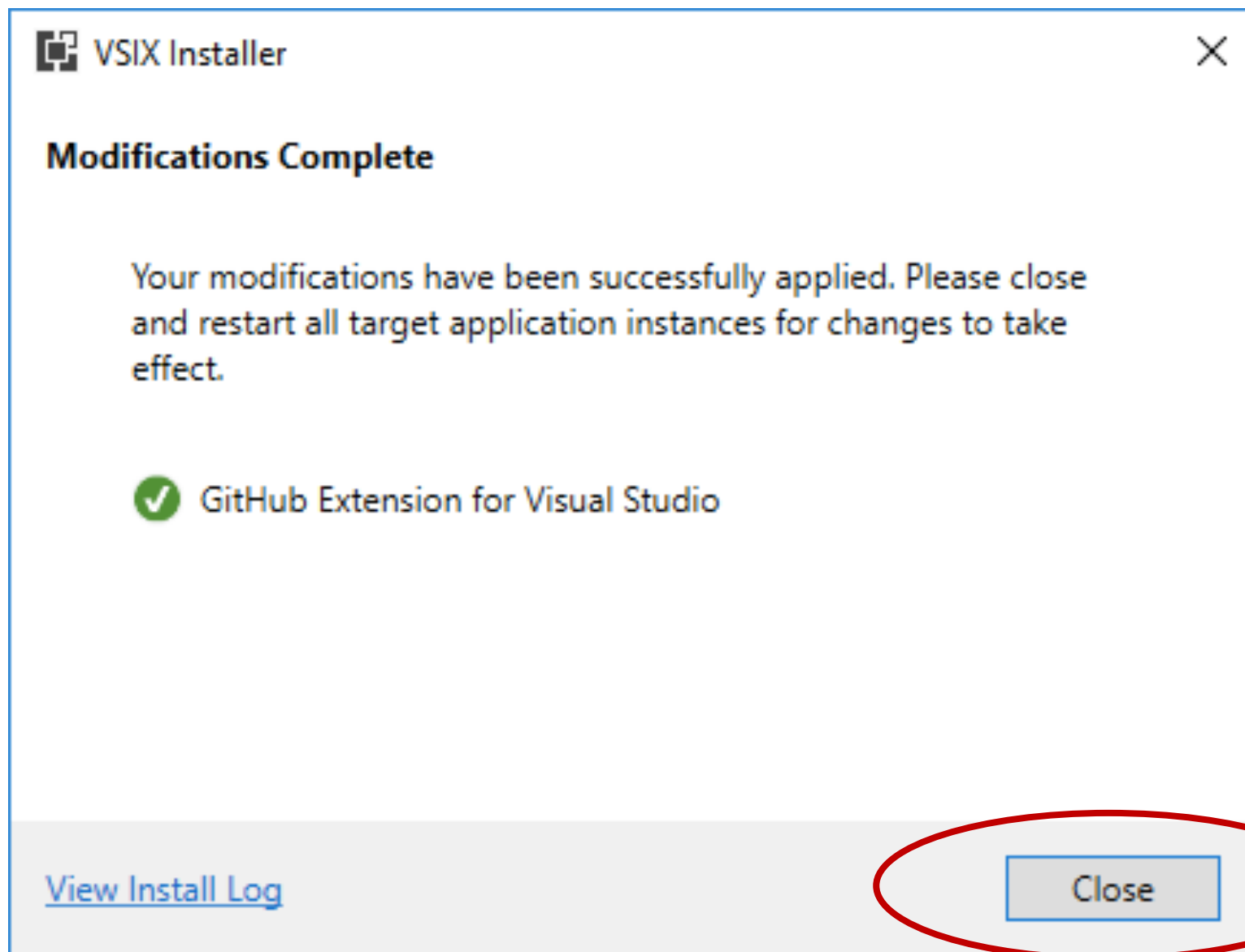
**Created by:** GitHub**Version:** 2.5.5.3913**Downloads:** 67375880**Rating:** ★★★★★ (64 Votes)[More Information](#)[Report Extension to Microsoft](#)**Scheduled For Install:**

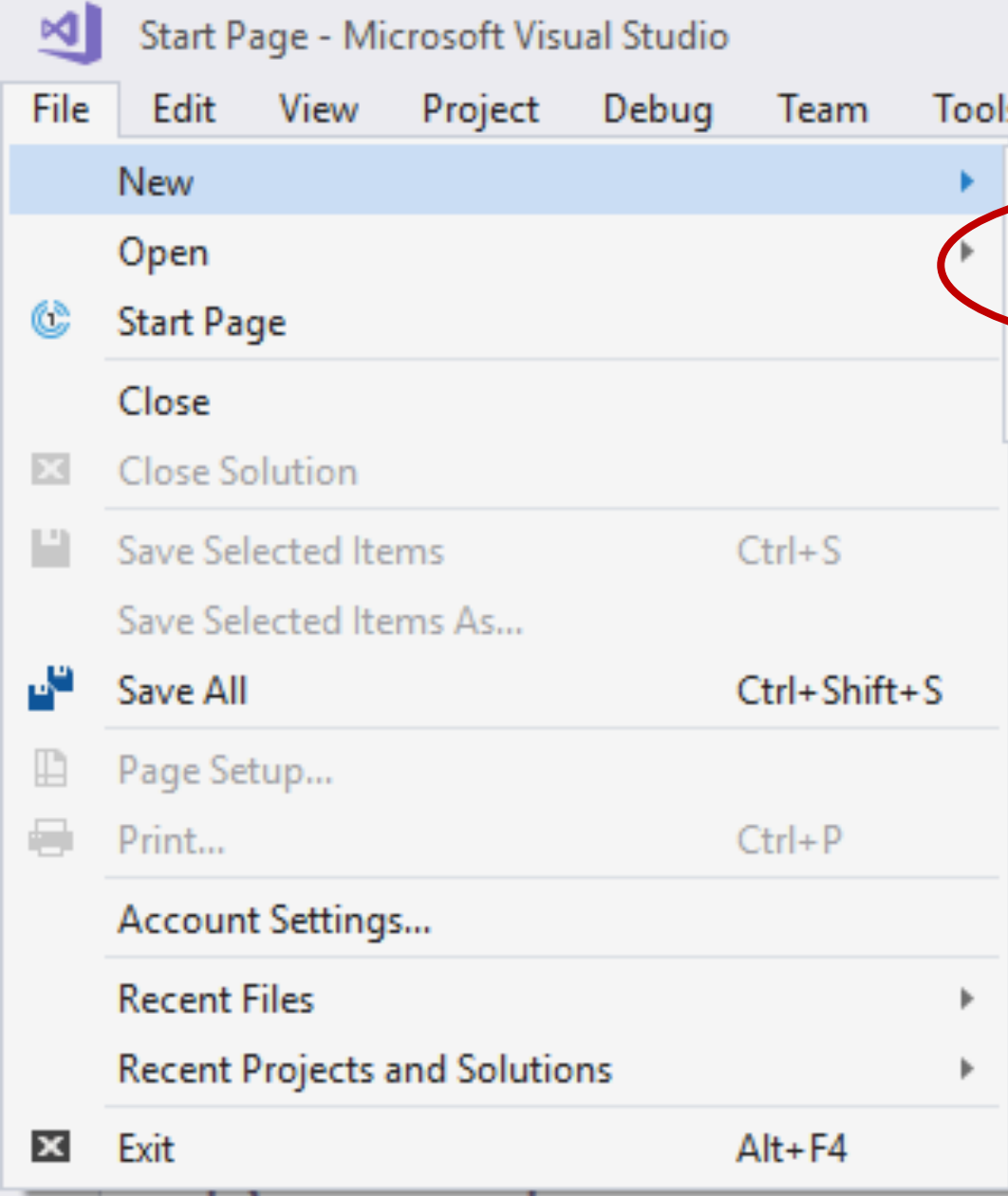
None

**Scheduled For Update:**

None

**Scheduled For Uninstall:**



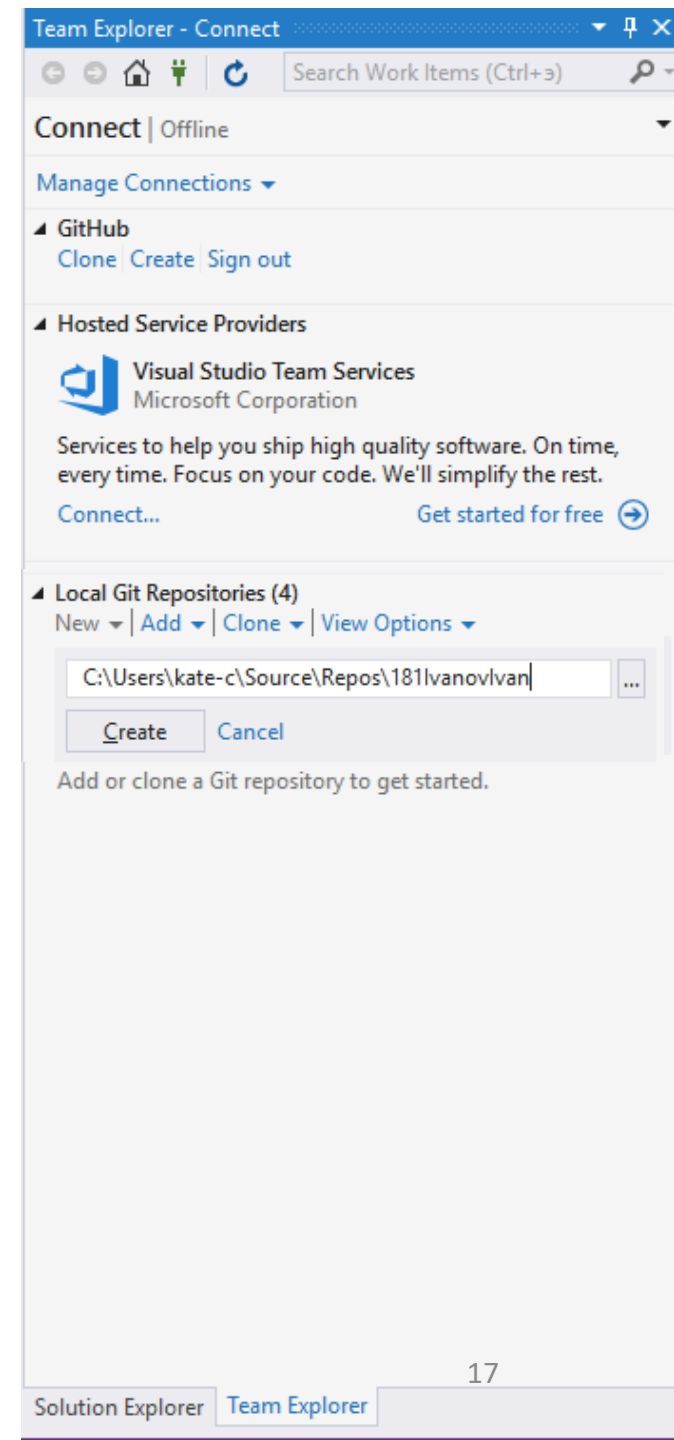


Если данная опция не появилась,  
то перезагрузите систему и  
попробуйте ещё раз!

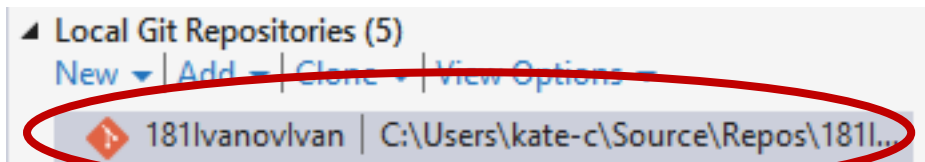


**Создать локальный репозиторий**

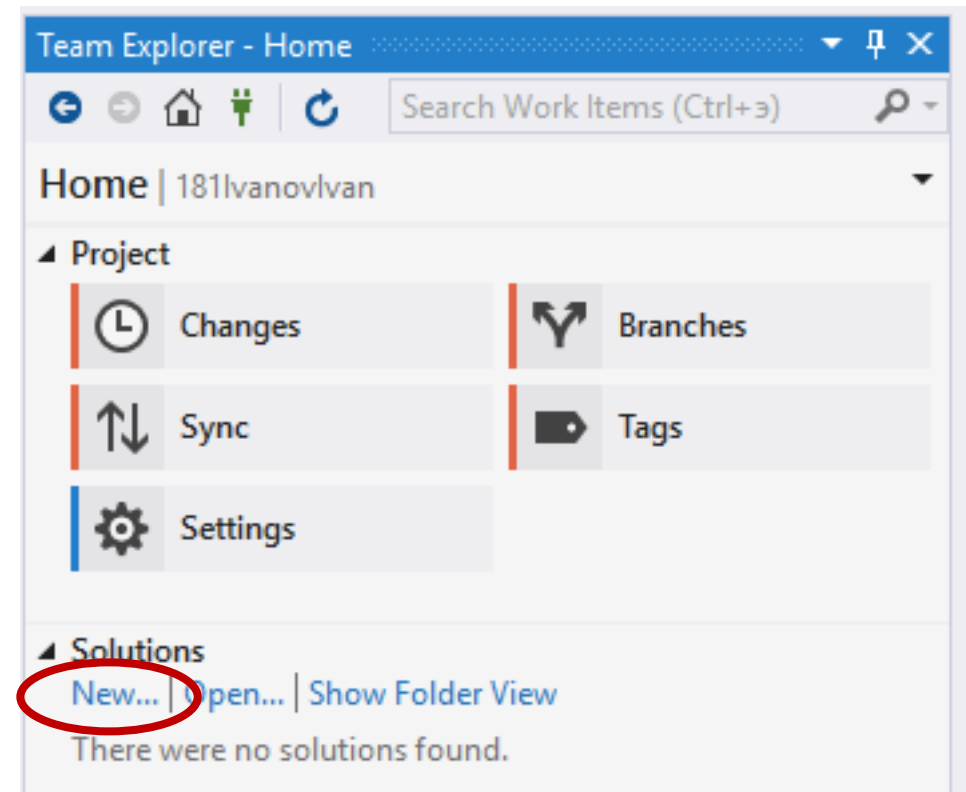
**Называем его строго в формате  
196SurnameName !!!  
(группаФамилияИмя)**



- Создали локальный репозиторий, отлично!
- Нажимаем на него



- Создаем новое решение



New Project

Recent









Installed

- Visual C#
  - Get Started
  - Windows Desktop
  - .NET Core
  - .NET Standard
  - Test
- Visual Basic
- Visual C++
- Visual F#
- Other Project Types

Online

Sort by: Default

Search (Ctrl+E)

	WPF App (.NET Framework)	Visual C#
	Windows Forms App (.NET Framework)	Visual C#
	Console App (.NET Core)	Visual C#
	Console App (.NET Framework)	Visual C#
	Class Library (.NET Standard)	Visual C#
	Class Library (.NET Framework)	Visual C#
	Shared Project	Visual C#
	Class Library (Legacy Portable)	Visual C#

Type: Visual C#  
A project for creating a command-line application

Not finding what you are looking for?  
[Open Visual Studio Installer](#)

Name: ConsoleApp1

Location: C:\Users\kate-c\Source\Repos\181\vanov\van\Homework\_1

Solution name: Homework\_1

Framework: .NET Framework 4.6.1

Browse...

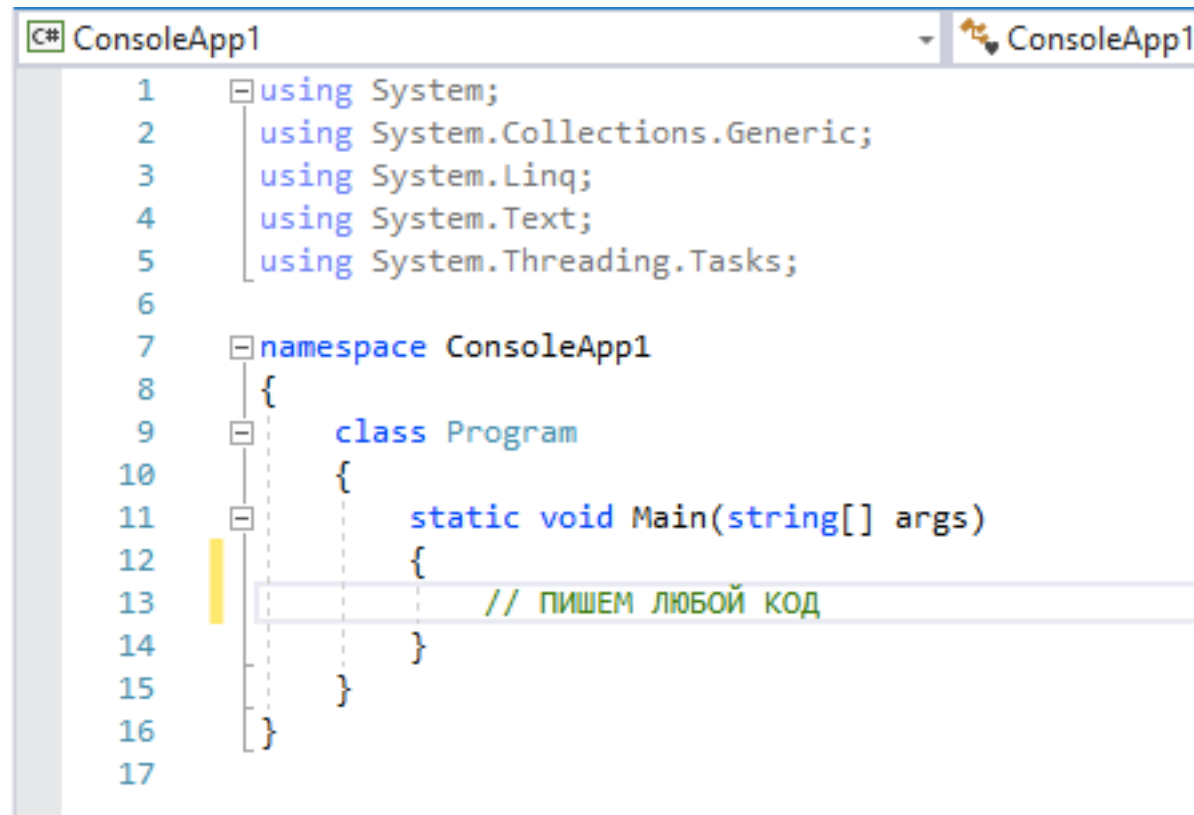
☒ Create directory for solution

☒ Create new Git repository

OK Cancel

Это важно!  
«Ручками» дописываем в Location "\Homework\_1",  
создавая таким образом иерархичную структуру.  
Также не забываем изменить название Решения.

# Пишем любой код, создаем любые проекты



```
1  using System;
2      using System.Collections.Generic;
3      using System.Linq;
4      using System.Text;
5      using System.Threading.Tasks;
6
7  namespace ConsoleApp1
8  {
9      class Program
10     {
11         static void Main(string[] args)
12         {
13             // ПИШЕМ ЛЮБОЙ КОД
14         }
15     }
16 }
17
```

Homework\_1 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Debug Any CPU Start

Program.cs\* ConsoleApp1 ConsoleApp1.Program Main(string[] args)

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace ConsoleApp1
8 {
9     class Program
10     {
11         static void Main(string[] args)
12         {
13             // ПИШЕМ ЛЮБОЙ КОД
14         }
15     }
16 }
17
```

100 %

Output

Show output from: Source Control - Git

Opening repositories:  
C:\Users\kate-c\Source\Repos\181IvanovIvan  
An existing Git repository was found in C:\Users\kate-c\Source\Repos\181IvanovIvan.  
An existing Git repository was found in C:\Users\kate-c\Source\Repos\181IvanovIvan.

Team Explorer - Home

Search Work Items (Ctrl+э)

Home | 181IvanovIvan

Project

- Changes
- Branches
- Sync
- Tags
- Settings

Solutions

New... | Open... | Show Folder View

Homework\_1.sln | Homework\_1\Homework\_1

Solution Explorer Team Explorer

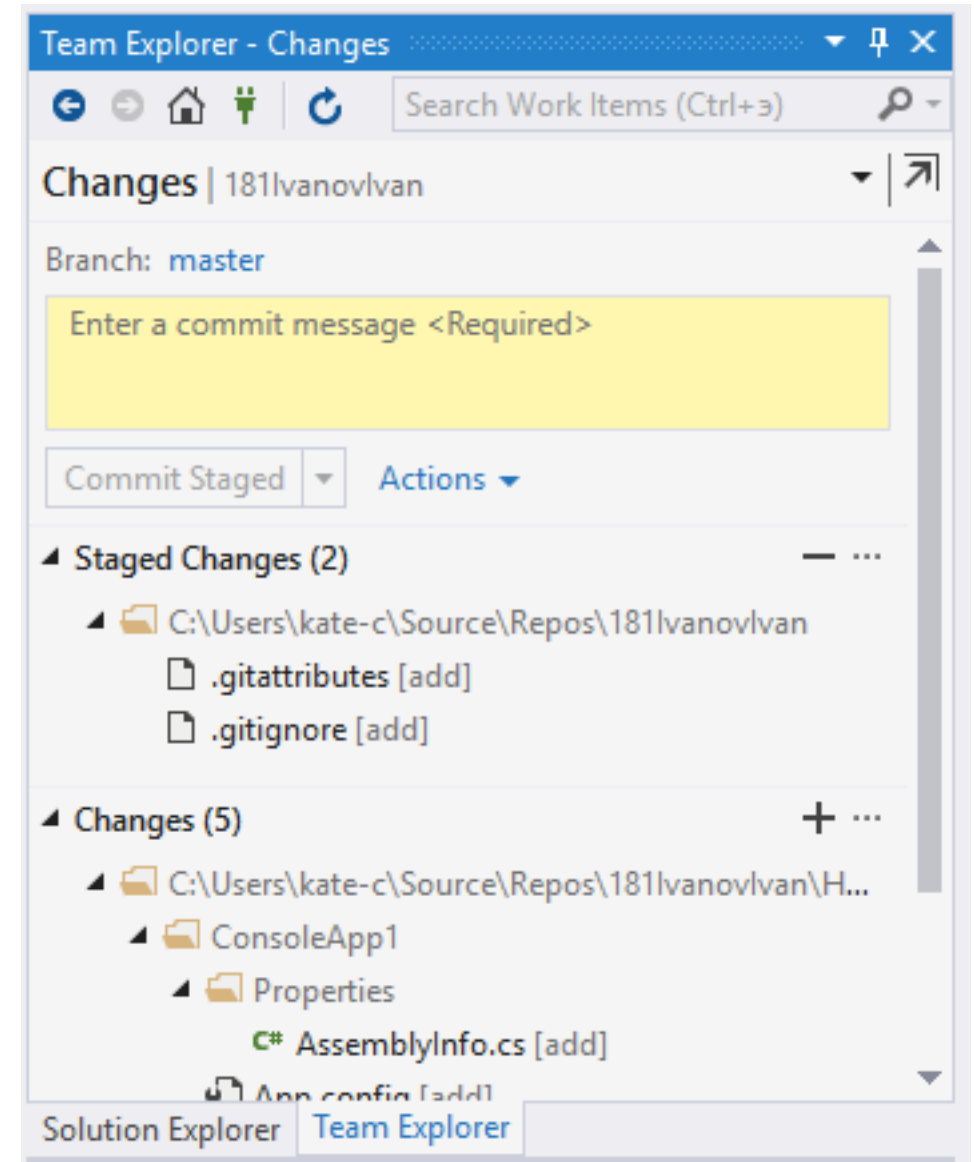
Properties

Затем ждем на Карандаш

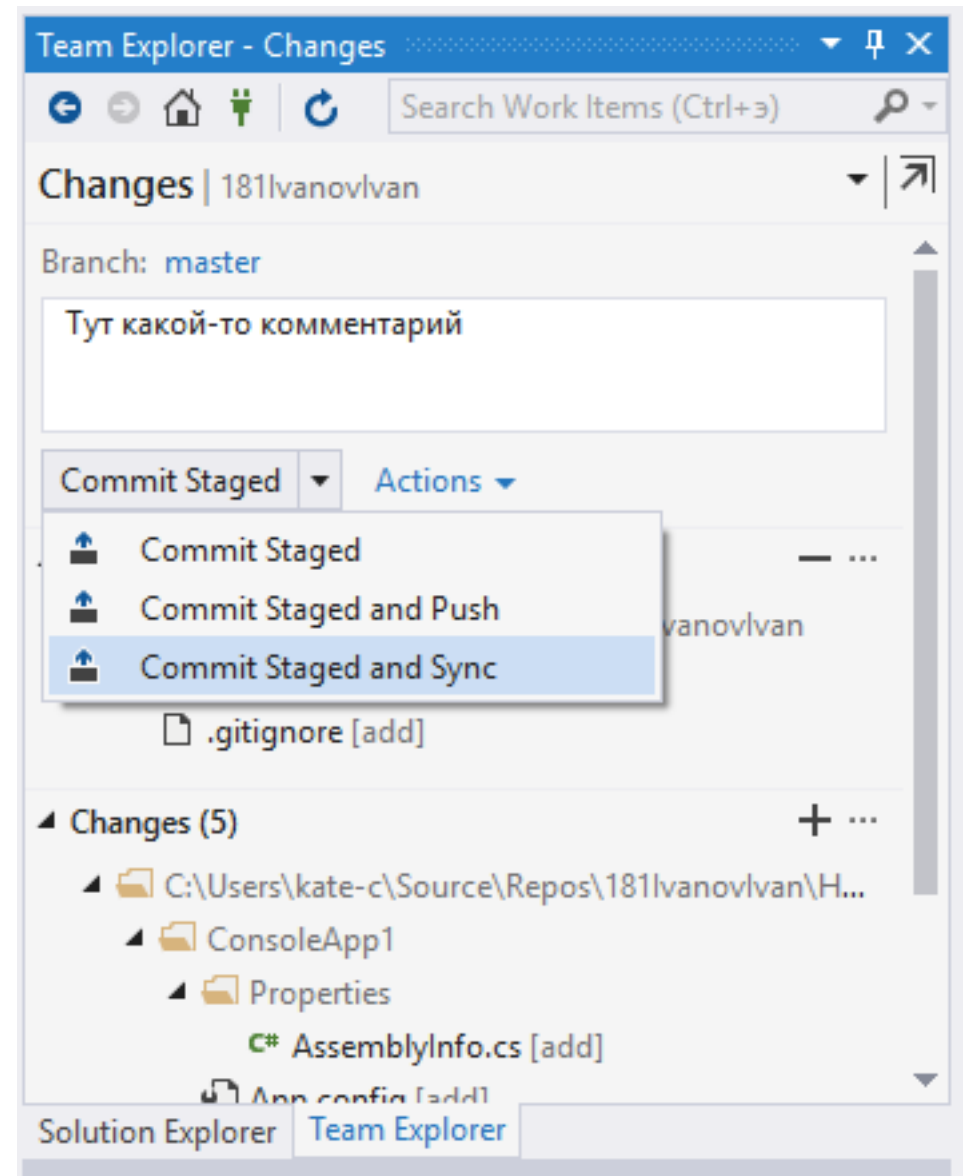
Горденко М.К., mgordenko@hse.ru

Ready Ln 31 Col 31 Ch 31 INS 2 181IvanovIvan master

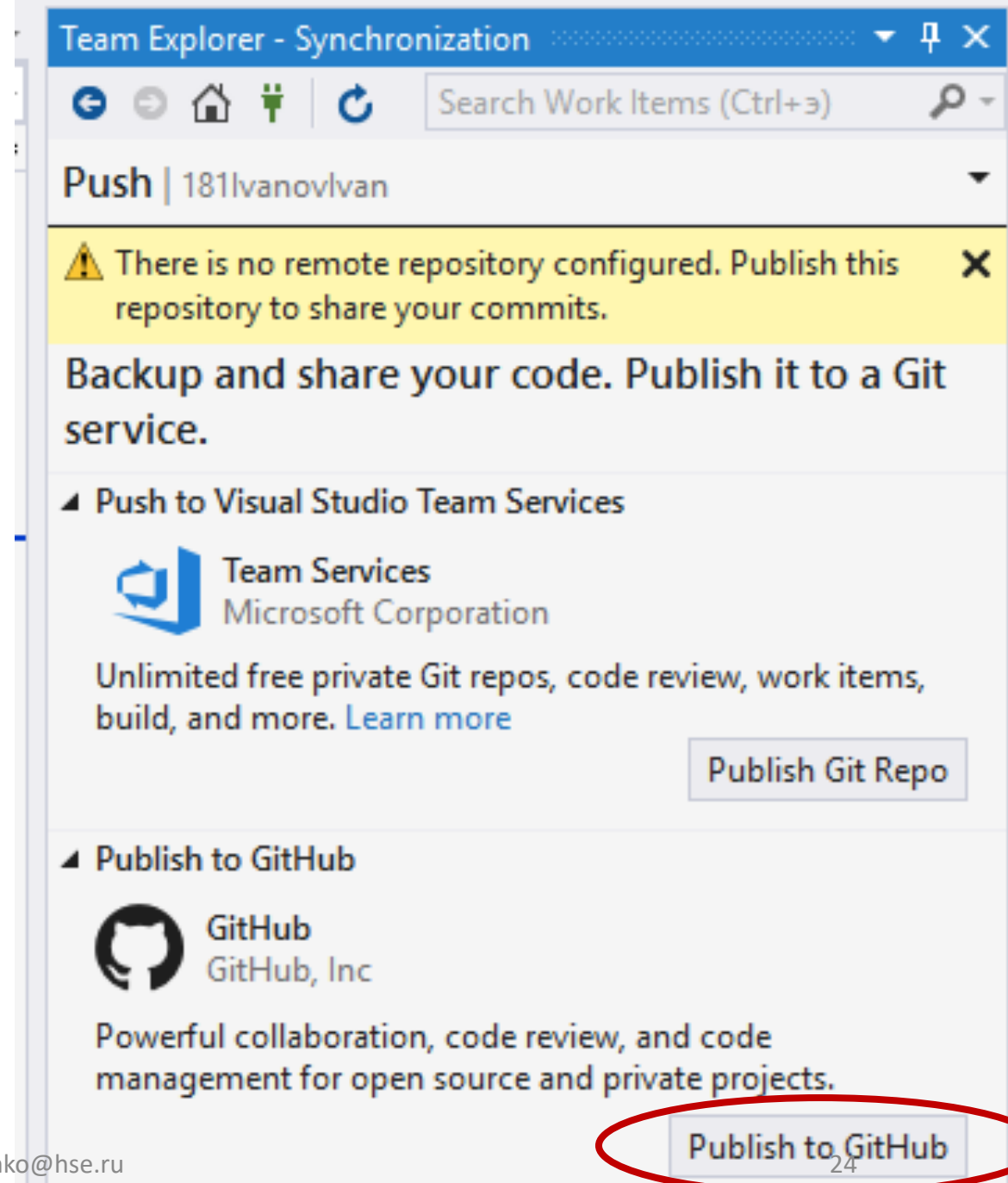
- Пишем в желтом поле комментарий или нажимаем пробел



- Затем производим фиксацию всех изменений и синхронизацию.
- (Третья строчка из выпадающего списка)




- Должно появиться данное предупреждающее сообщение. У нас есть локальный репозиторий, но мы ещё не создали его удаленно.
- Для этого публикуем его на GitHub






- Логинимся
- И выбираем не свой аккаунт, а общую организацию (hse-programming-...)
- Проверяем, что название репозитория удовлетворяет формату 181IvanovIvan
- Нажимаем Publish

▲ Publish to GitHub

 This repository does not have a remote. Fill out the form to publish it to GitHub.

GitHub

 hse-programming-CSharp2018-2019

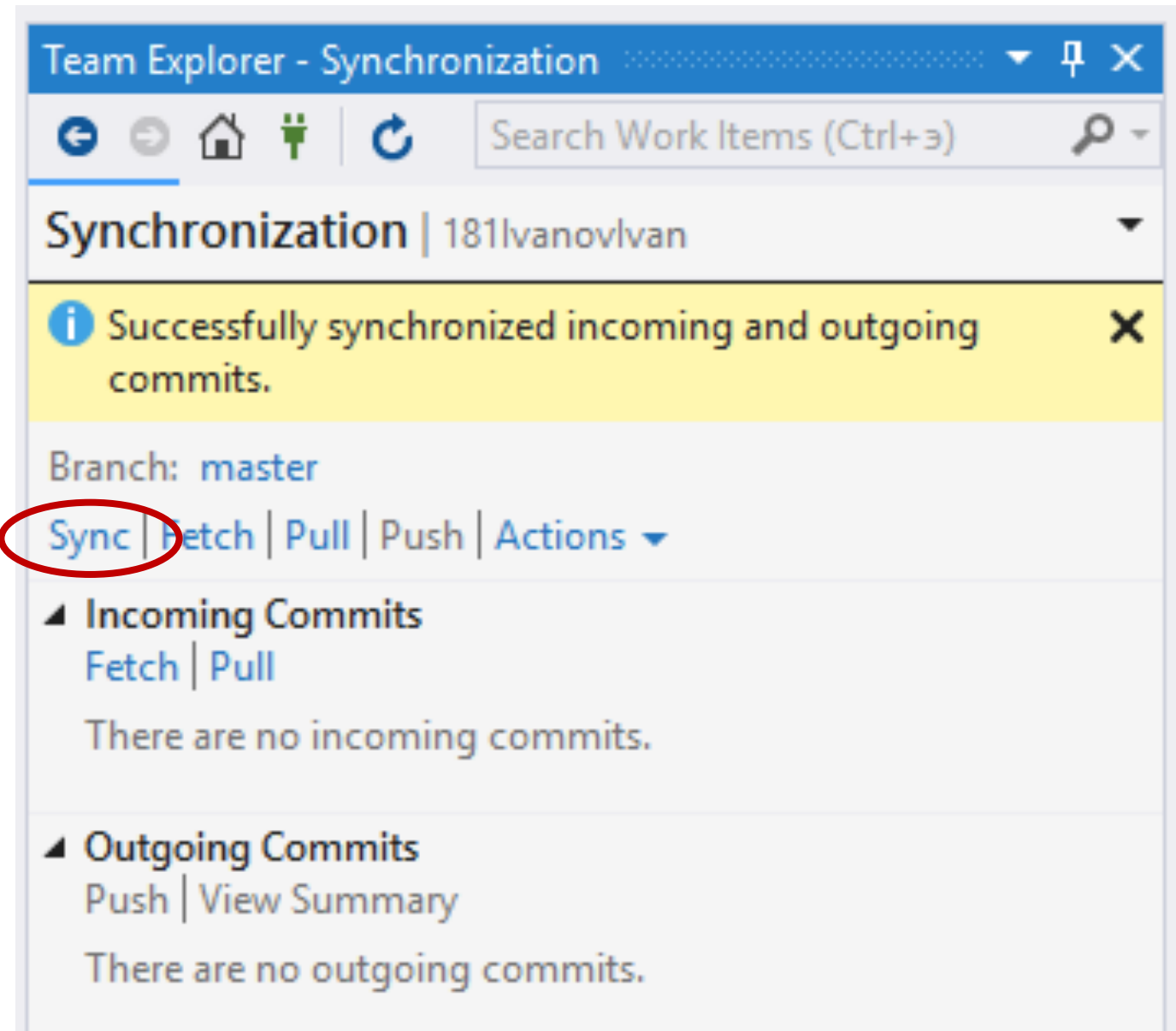
181IvanovIvan

Description (Optional)

☐ Private Repository

Publish

- Нажимаем на синхронизацию



# Ура!

- Заходим на сайт и проверяем наш созданный репозиторий

The screenshot shows the GitHub interface for a repository named 'hse-programming-CSharp2018-2019'. The repository is owned by '181ivanovIvan'. The main content area displays the repository name and a search bar. Below the search bar, there are filters for 'Type: All' and 'Language: All'. A green 'New' button is visible on the right. On the left, there is a section for 'Top languages' showing 'C#' as the primary language. The repository has 29 repositories, 49 people, 0 teams, and 0 projects. The repository was updated a minute ago.

Search or jump to... Pull requests Issues Marketplace Explore

**C#** hse-programming-CSharp2018-2019

Repositories 29 People 49 Teams 0 Projects 0 Settings

Search repositories... Type: All Language: All Customize pinned repositories New

181ivanovIvan

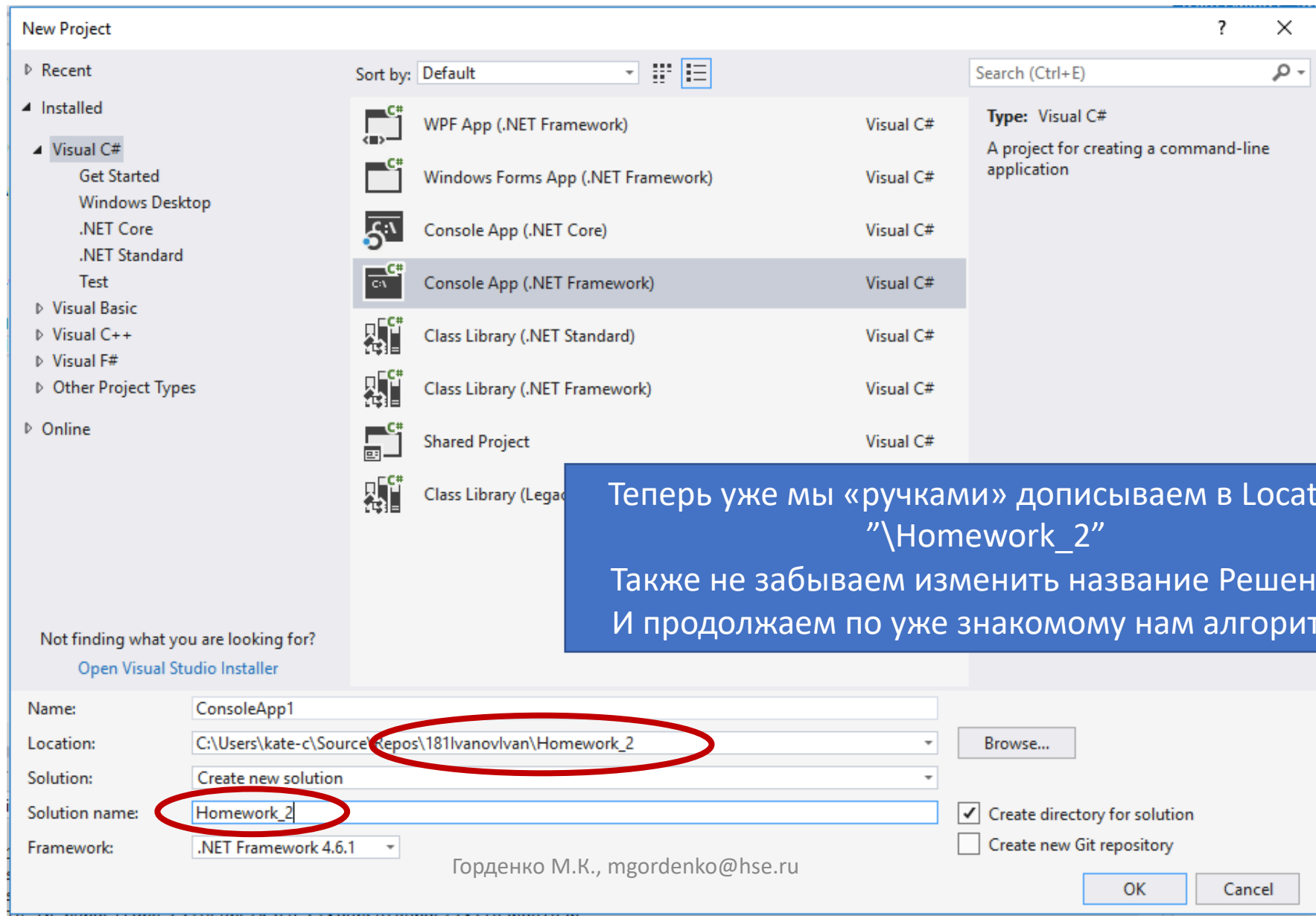
C# Updated a minute ago

Top languages

C#

- После добавления новых изменений снова действуем по следующему алгоритму:
  - Карандаш
  - Комментарий
  - Фиксация и синхронизация
  - Всё (проверяем на сайте)

# Мы только что добавили дз1. Как добавить дз2?



# Аккуратность – наше все!

- Помните, что репозиторий нужно вести аккуратно.
- Сделайте иерархическую структуру репозитория и соблюдайте её:
  - 03 module
    - 01 seminar
      - class work
      - home work
    - 02 seminar
    - И т.д.