# MAIN(GITHUB)

GitHub is a web-based Git repository hosting service. It offers all of the distributed revision control and source code management(SCM) functionality of Git as well as adding its own features. Unlike Git, which is strictly a command-line tool, GitHub provides a Web-based graphical interface and desktop as well as mobile integration.

The best feature about GitHub is a person could access another person's file and make changes to it. An example would be if my friend wants me to make changes to a project in Visual Studio, he can put his files on GitHub and I am able to take his files and make changes to it. Thus, I will make a short demo on how GitHub works.
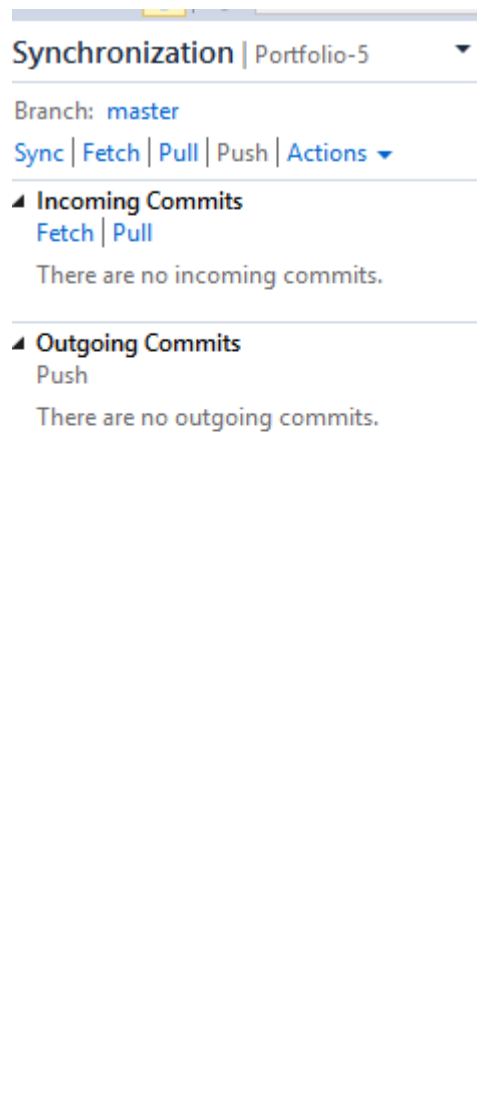
Firstly, you and your friend would need to sign up as a GitHub user, then make a public repository so other people can make changes to that particular repository. Then, after adding one another, they can make changes to each other's files
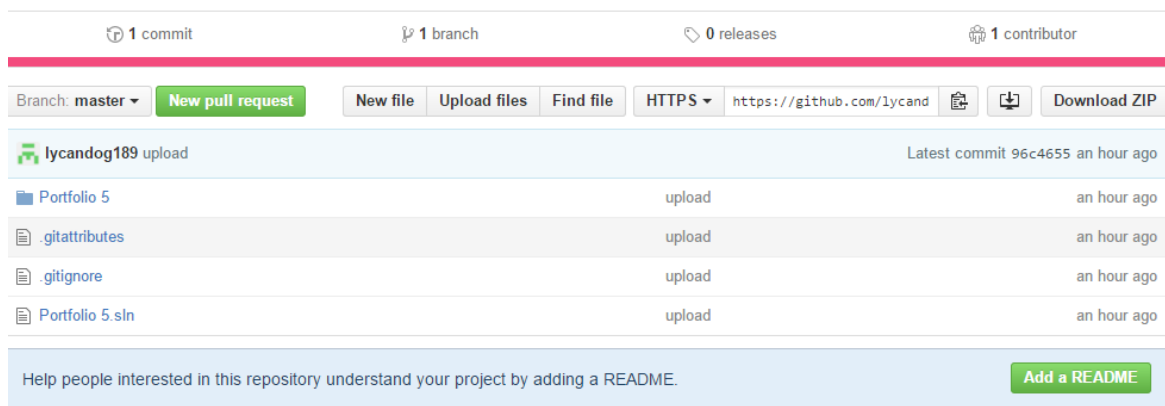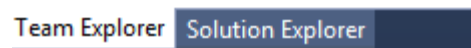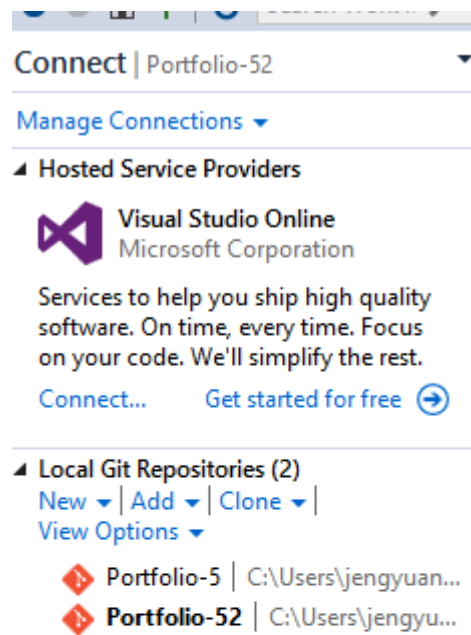

First, I accessed lycandog189's repository, then I copied the github link in able to make changes to his Portfolio 5 file
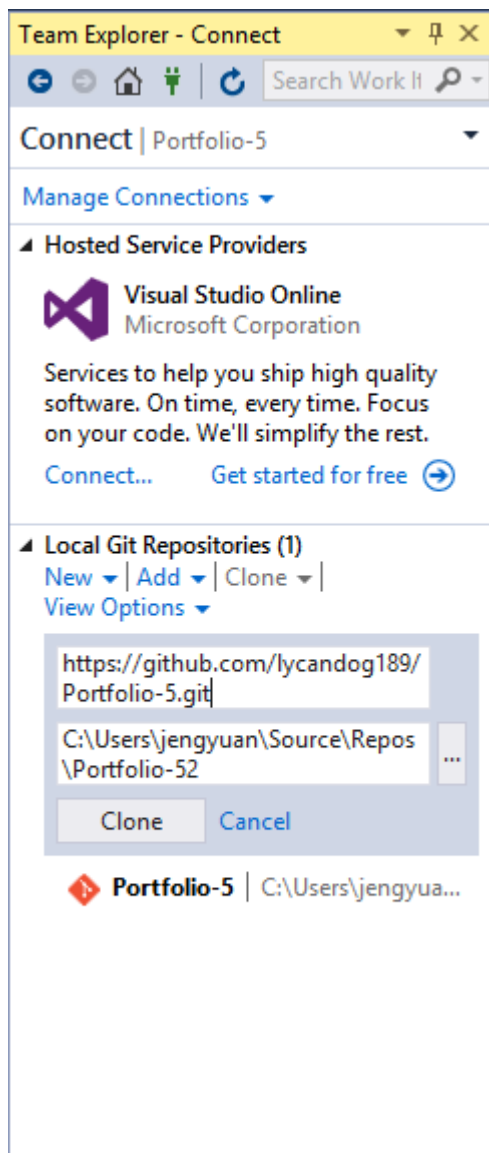
I pasted the link in the link box which is found in Visual Studio, then I clicked the clone button to connect to lycandog189's github Portfolio 5. Then I waited for the cloning to be completed

Synchronization | Portfolio-5 ▼

Branch: master
Sync | Fetch | Pull | Push | Actions ▼

◢ Incoming Commits
 Fetch | Pull

 There are no incoming commits.

◢ Outgoing Commits
 Push

 There are no outgoing commits.

After that, I pulled the Portfolio 5 file from lycandog's repository to make changes to his current project.

Connect | Portfolio-52

Manage Connections ▾

▲ Hosted Service Providers

Visual Studio Online
Microsoft Corporation

Services to help you ship high quality
software. On time, every time. Focus
on your code. We'll simplify the rest.

Connect...   Get started for free →

▲ Local Git Repositories (2)
New ▾ | Add ▾ | Clone ▾ |
View Options ▾

Portfolio-5 | C:\Users\jengyuan...
Portfolio-52 | C:\Users\jengyu...

Team Explorer   Solution Explorer

Lycandog's Portfolio 5 is now in my visual studio.

This is his current file without making changes yet

I added a line called cout << "hello world! << endl; to see if there will be changes later.
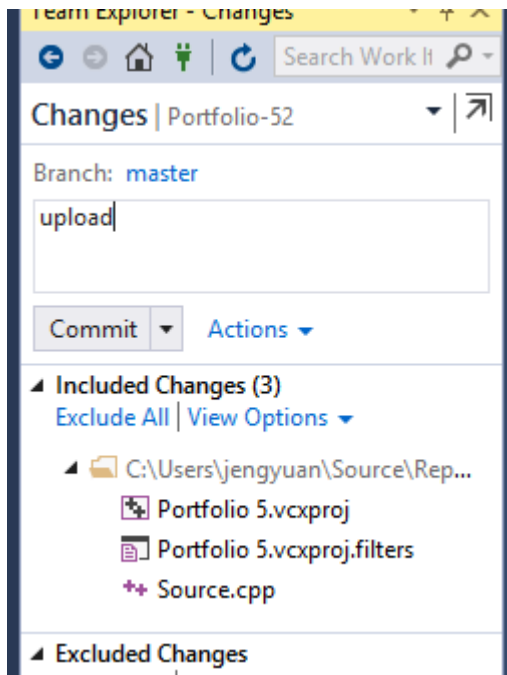
After adding that line, I put a name called upload(can be any name at all) and click commit which will commit any changes done.
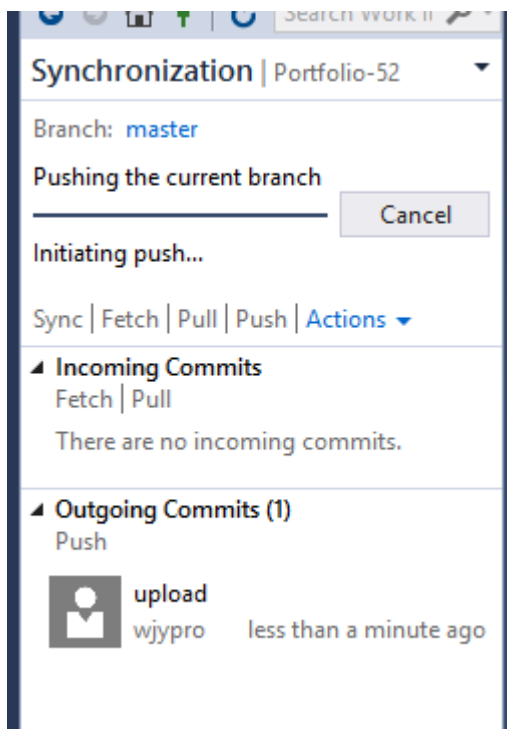
Then I click the push button which sends the changes I made back to lycandog's github.

```cpp
1    #include <iostream>
2
3    using namespace std;
4
5    int main()
6    {
7            cout << "Portfolio 5" << endl;
8            cout << "hello world!" << endl;
9            system("PAUSE");
10   }
```

After opening his github, the line (cout << "hello world!" << endl;) is added, thus changes are made to his Portfolio 5 file.