GitHub Instructions

Last Updated: September 20, 2015

Step-by-Step Guide

This document tries to walk you through on how to setup a GitHub account, and how to access and commit your assignments. Please read this carefully, but if you are still stuck, please do not hesitate to ping your instructor or your TA for this course.
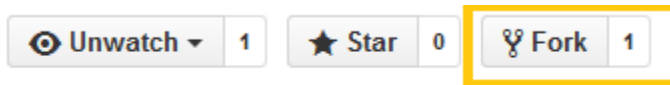
Create GitHub Account

If you do not one already then please go to https://github.com/ and sign up for a new account. If you already have one then you can use that existing account.

Pulling in Assignments

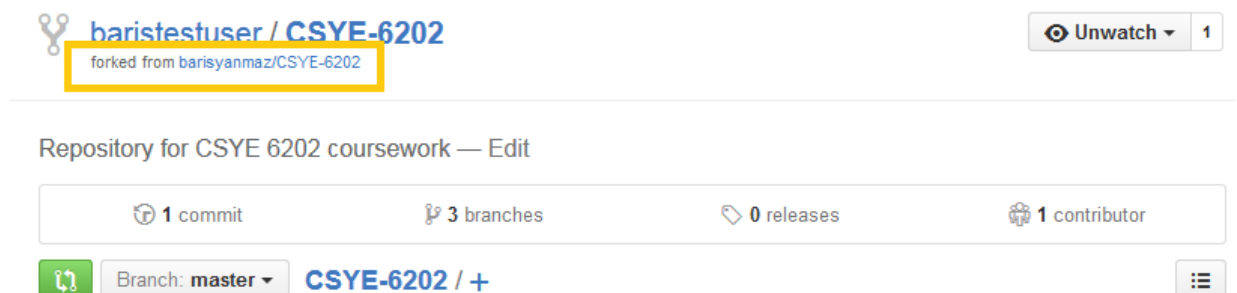1. While still signed in with your account, please type the following link into your address bar:
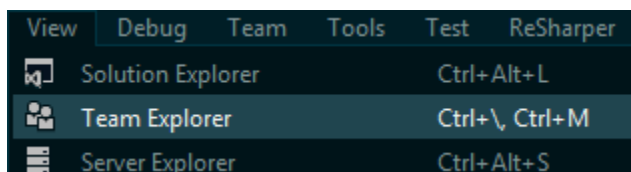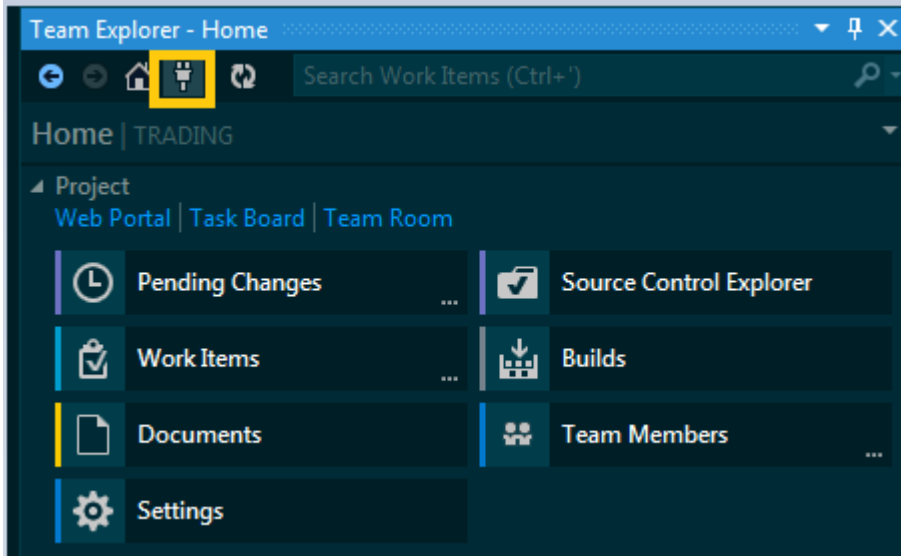   https://github.com/barisyanmaz/CSYE-6202

2. Fork your own copy

3. If the operation was successful, then you should see the forked repository under your account
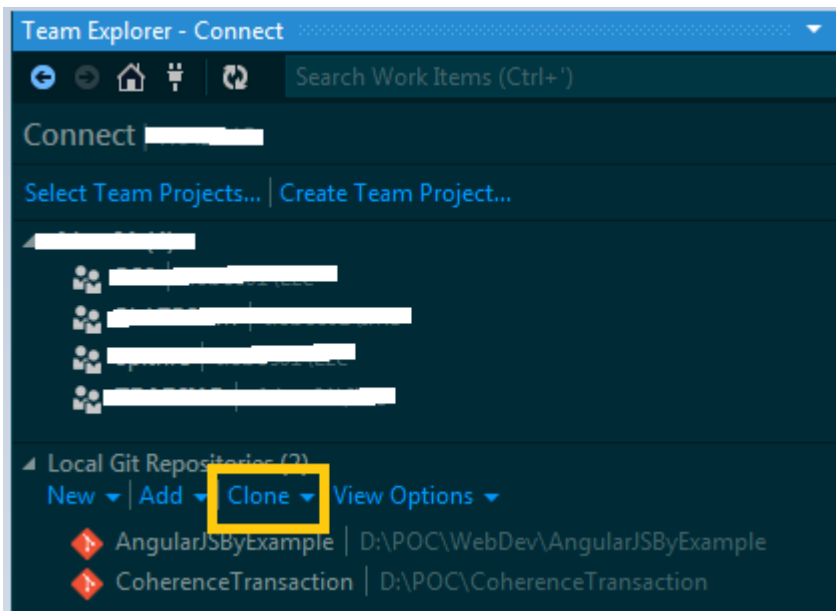

4. Fire up your Visual Studio 2015 Express and find Team Explorer window if it is not open already
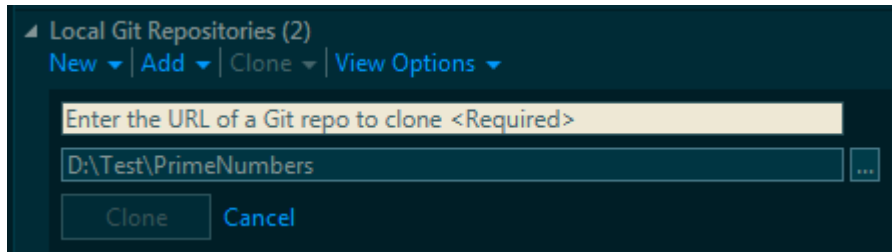
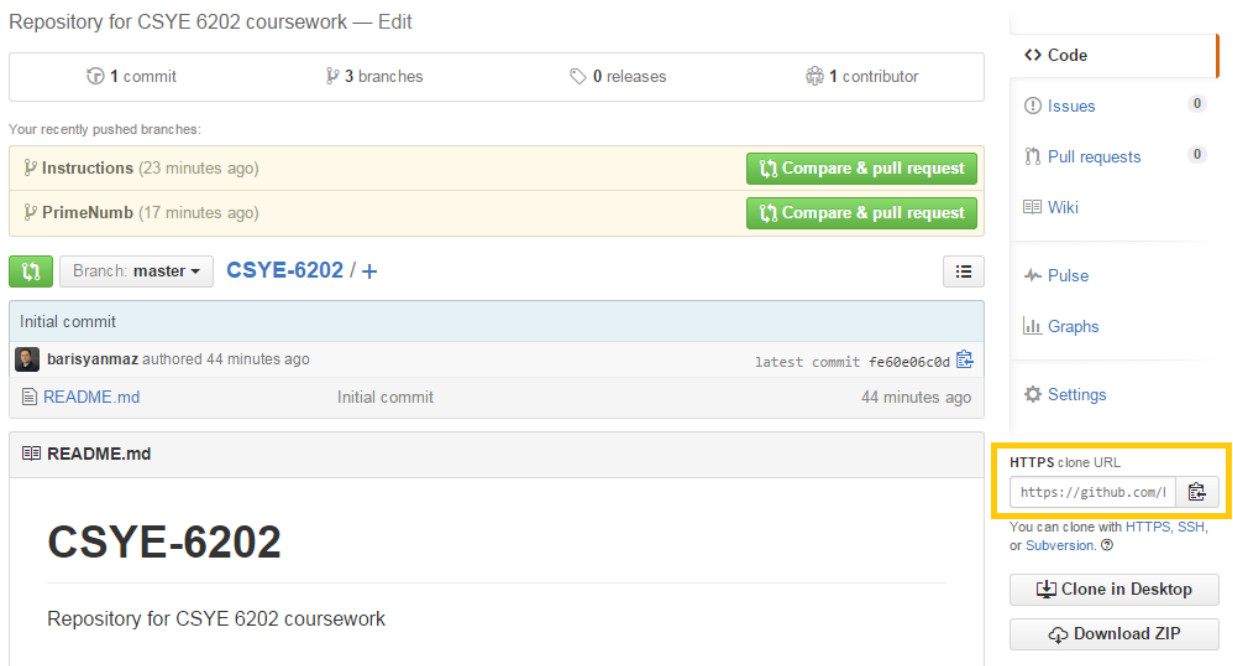5. Click on the *Connect to Team Projects* button

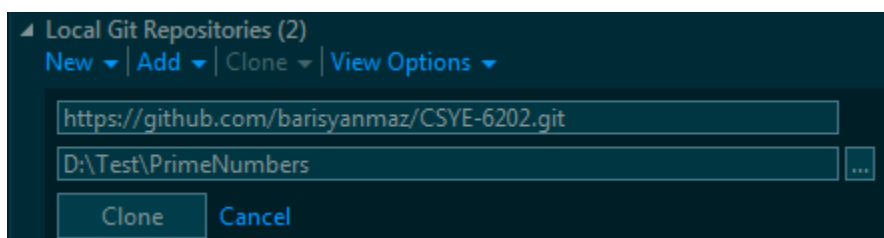

6. Click on the *Clone* link

7. Git plugin will require to enter information regarding where to clone from and where to copy the files to
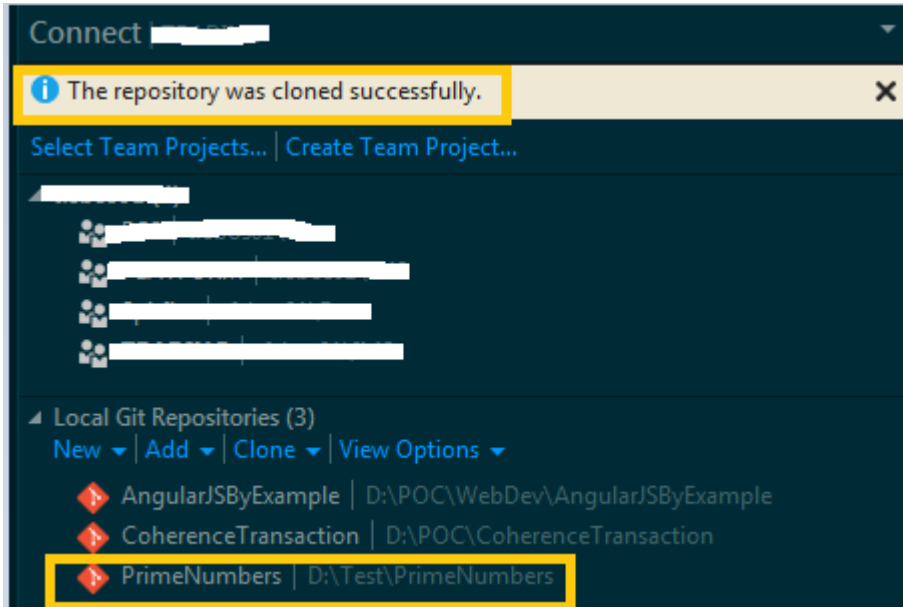
8. For the URL, go back to your browser and find your HTTPS clone URL and copy it and paste it in your Git plugin URL field
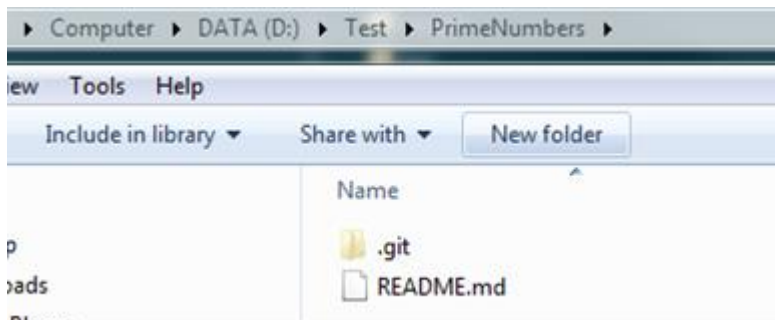
9. In my case it looks like the below – Your local folder can be anything you choose – In this example it is set to *D:\Test\PrimeNumbers*

10. Press the *Clone* button. If everything is successful, then you should see a success status on top as well as your new local git repo created
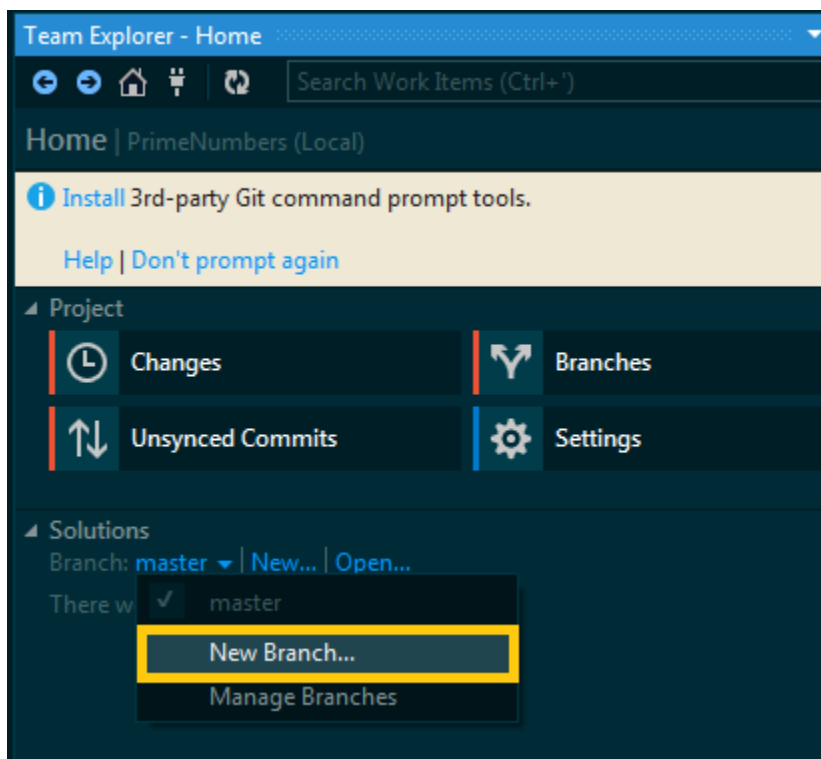

11. Go and check your specified local directory for this repository – In this case it is *D:\Test\PrimeNumbers*

12. It is empty, because by default you are looking at the master branch within the repository that you cloned. Double click on *PrimeNumbers* repository and you will be brought to the screen below
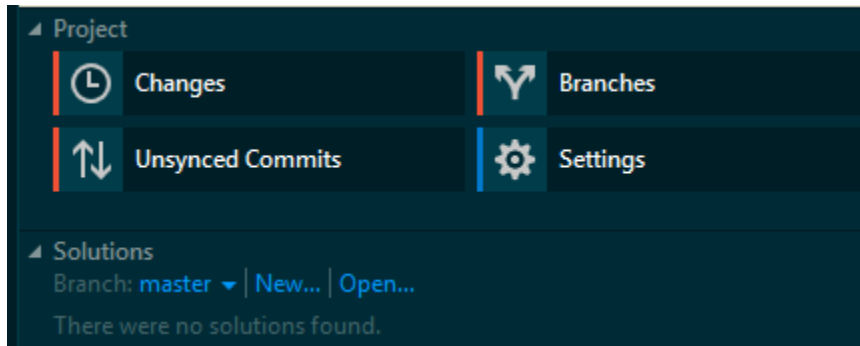

13. Click on *master* dropdown, and choose *New Branch...* option

14. On the screen below, name your local branch to anything you want and for the remote branch, choose the branch that is mapped to the assignment that you are working on.

    In this case I named my new local branch to *Anything* and since I am planning to work on the *PrimeNumbers* assignment, I chose *origin/PrimeNumb* remote branch.
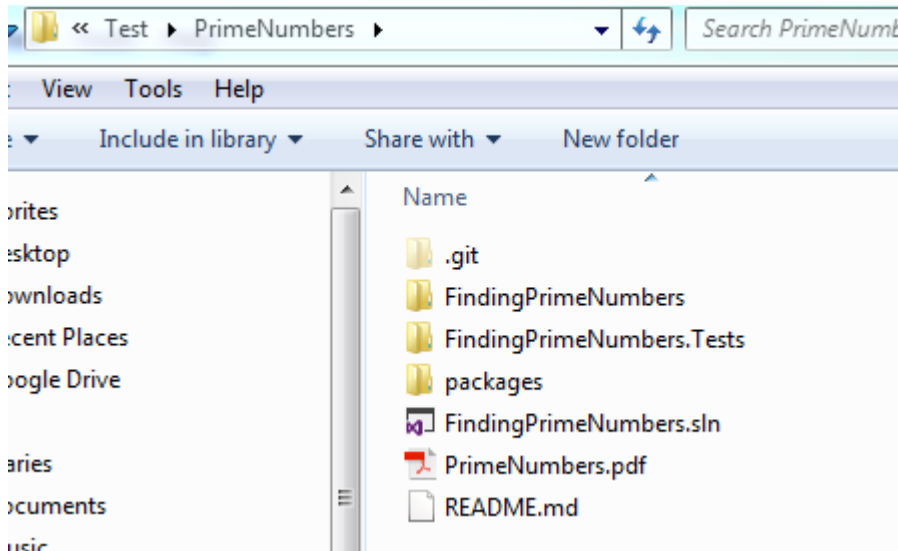
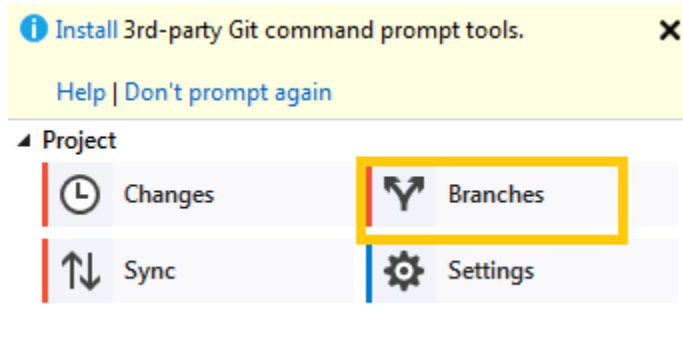   Make sure *Checkout branch* option is checked and then click on the *Create Branch* button.
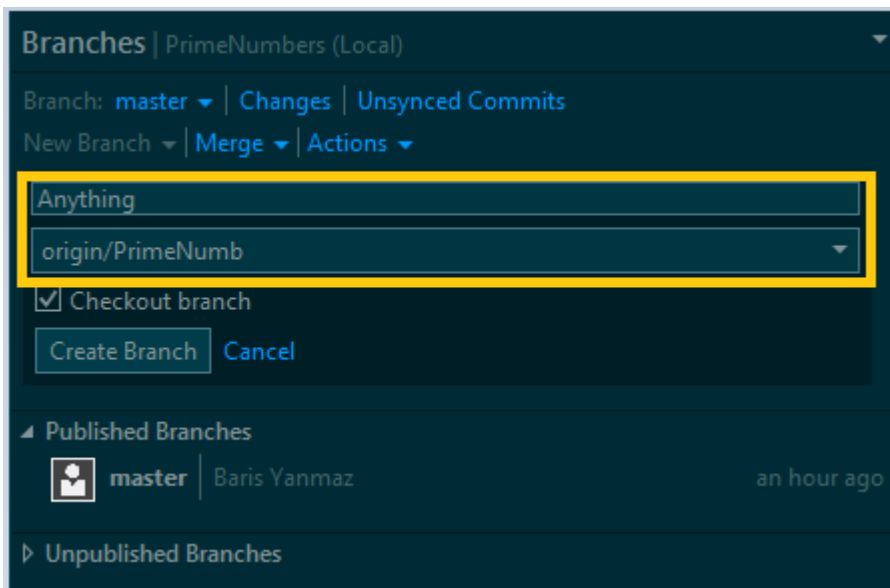
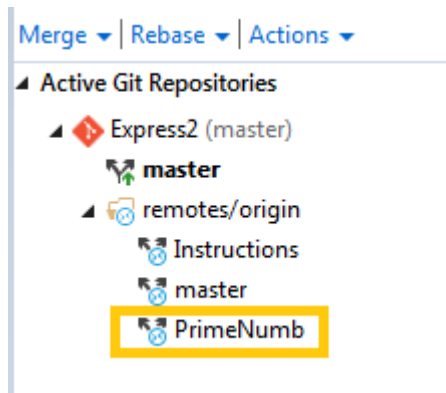15. If everything is successful, you should be able to see your new branch
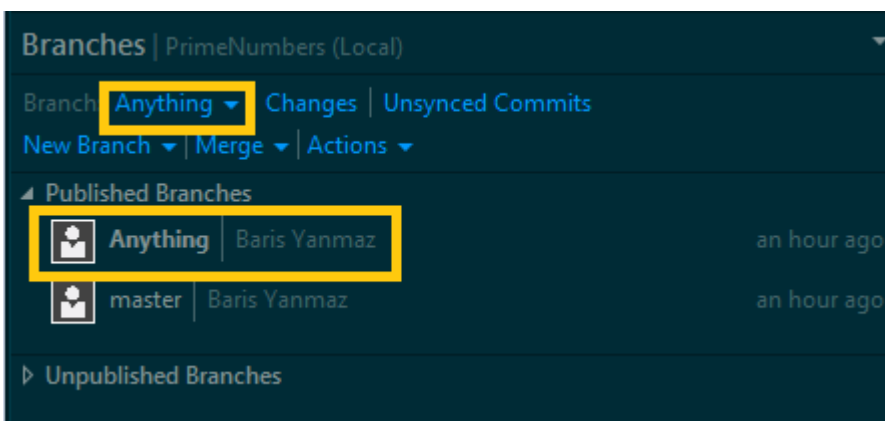
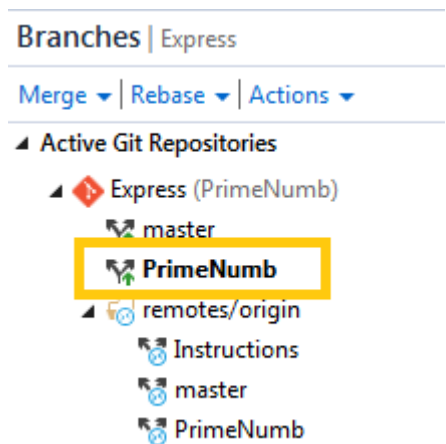16. Now, if you go back to your *D:\Test\PrimeNumbers* you should be able to see all the files

17. ***Steps 13-16 might not work.** If this is the case, then you need to go and select *Branches* option

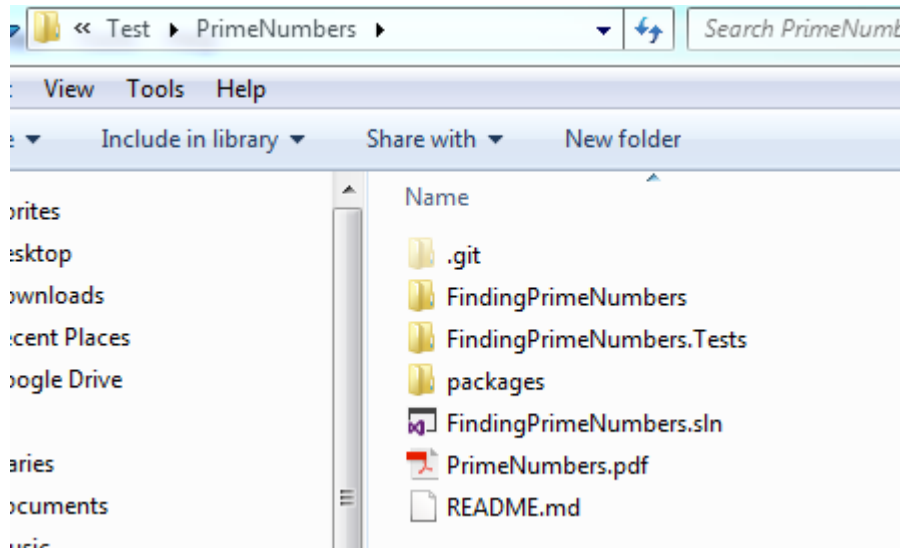18. Now go and double click to select *PrimeNumb* remote repository

19. You should see that *PrimeNumb* branch is copied over to your local repository

20. Now, if you go back to your *D:\Test\PrimeNumbers* you should be able to see all the files related to PrimeNumbers assignment


21. If all successful, now you can go and open the *FindingPrimeNumbers.sln* in Visual Studio

22. Make sure the solution builds fine and you are all set!

Please read the *.pdf doc to begin working on your assignment.
***I will put the assignments in a pdf file and check them into github. So in this case, for this assignment, you can find it in *PrimeNumbers.pdf* file.

Committing Your Solutions

1. Make sure **correct** branch is selected and then on your *Team Explorer* window, go to the *Changes* tab
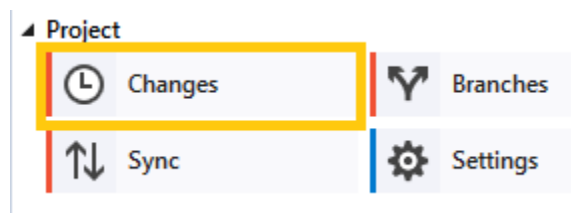
2. You will be brought in to your changes window. Again, make sure correct branch is selected! In this case it is *PrimeNumb*

3. As soon as you start making changes to any file, Git will start tracking the changes. In this case, I just added // test text to my Program.cs file and Git picked it up – See below
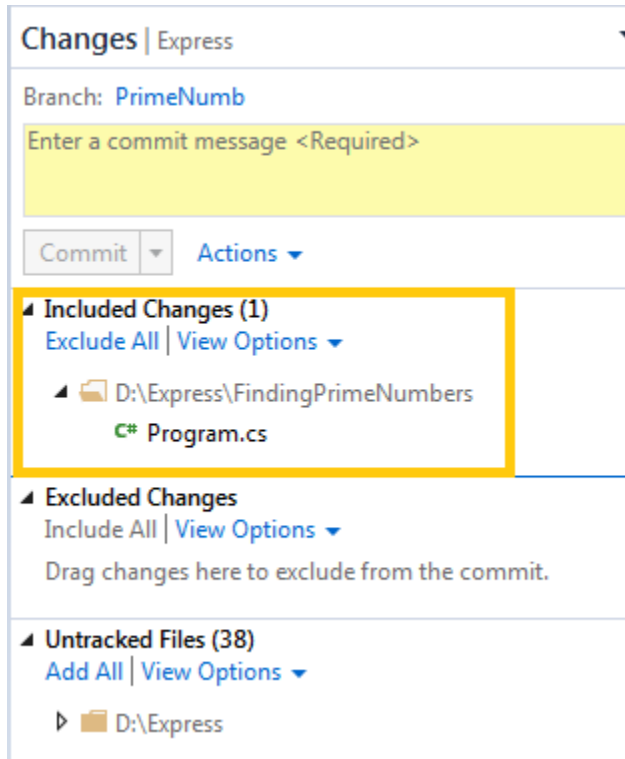
4. Enter a commit message and then select either *Commit* or *Commit and Push* option. I will choose *Commit and Push* option which will commit the current changes to both your local branch and your remote branch
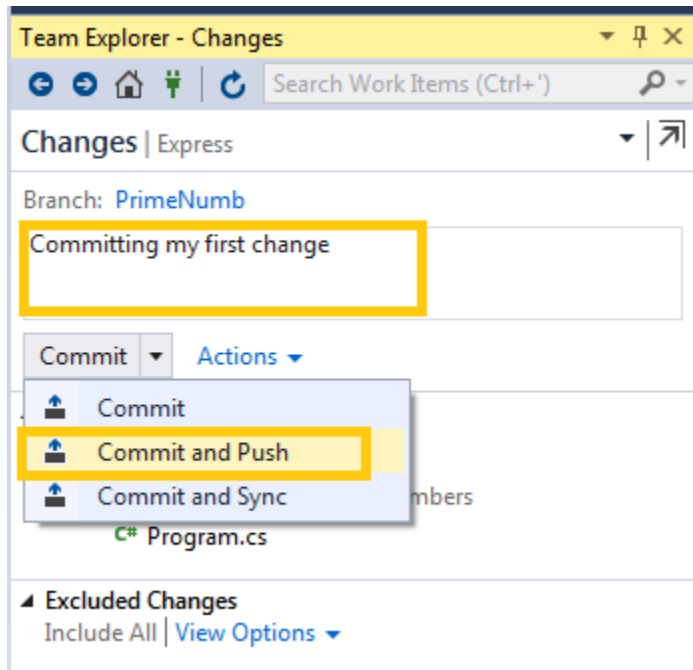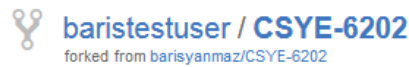

5. You will be asked to enter your username & password for github.com since you are trying to access to your remote repository. Enter your credentials
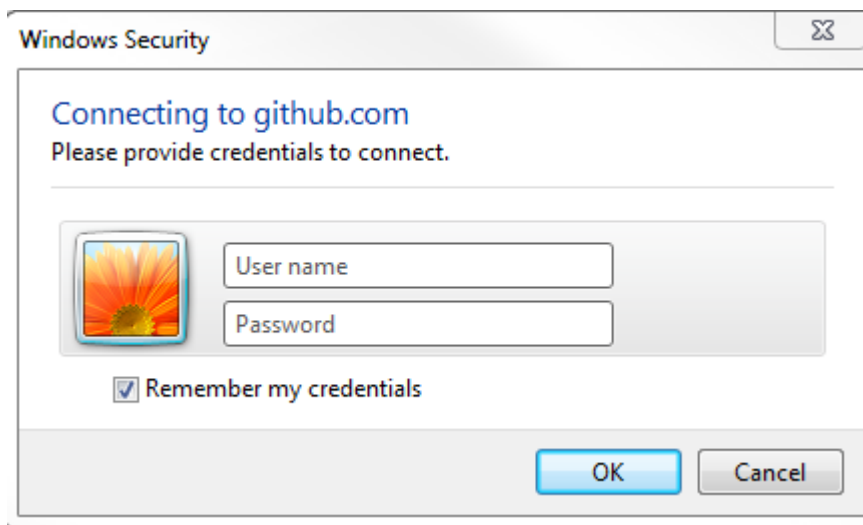
6. If everything goes fine, then you should see Git reporting success
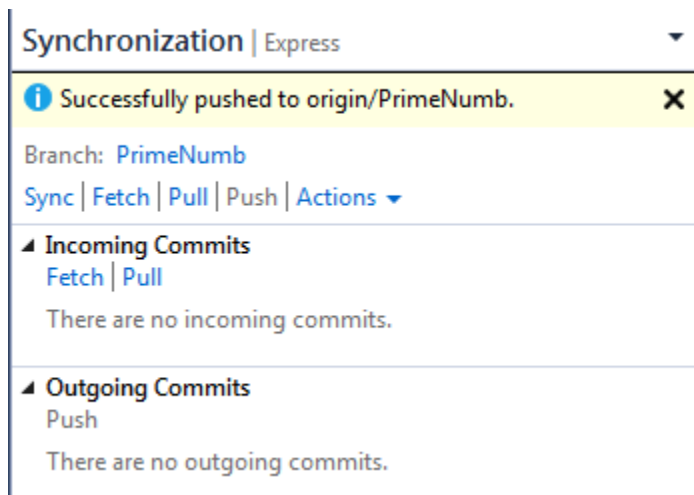
7. You can also double check the commitment from your github account on the github.com page. Just make sure you are looking at the correct branch and check out the latest commit
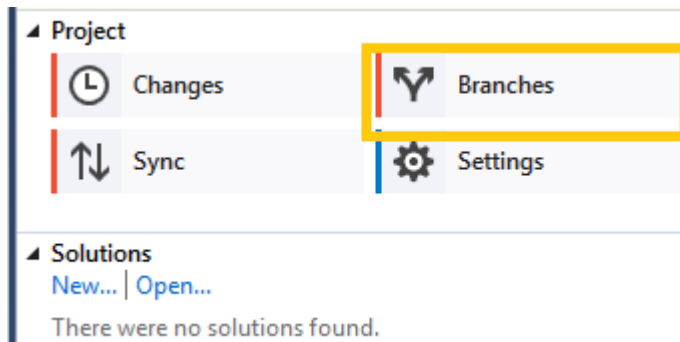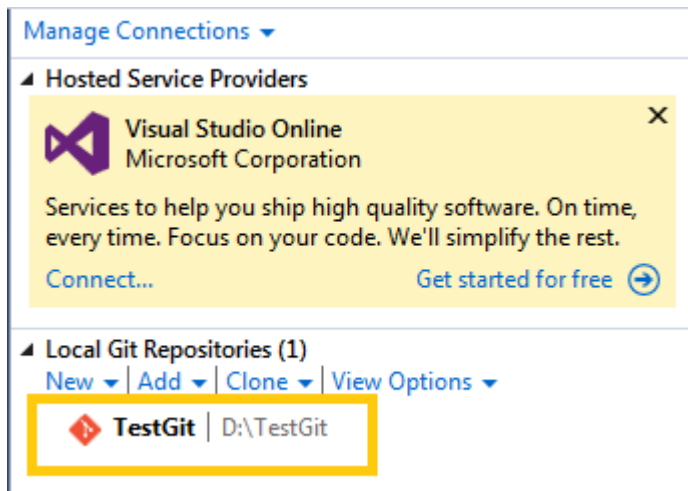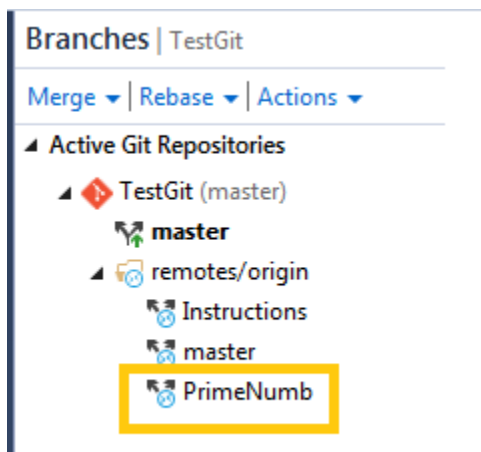
How to make sure all files are there

1. Similar to what you have done before, go to *Team Explorer* window again and clone your forked repository over to your test local repo
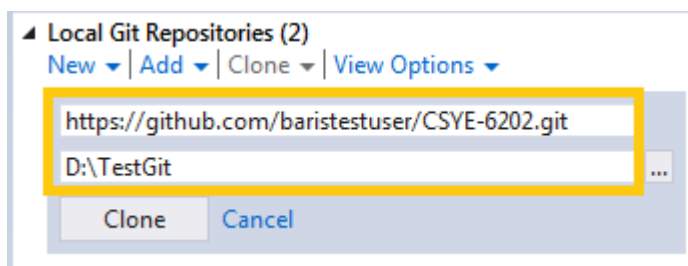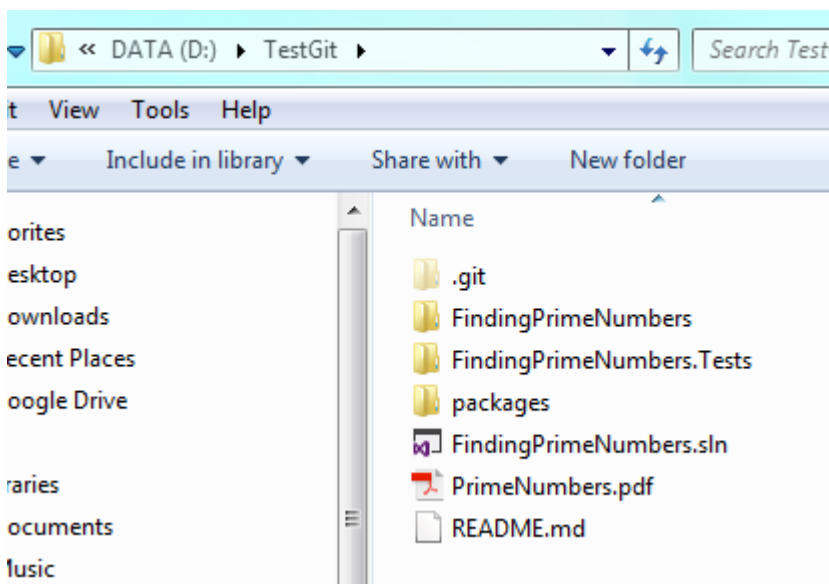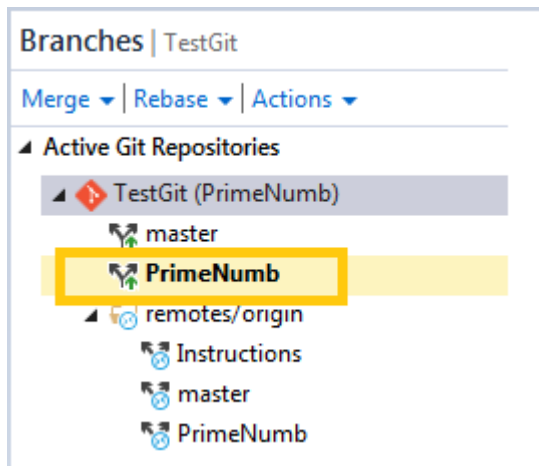
2. Similar to what you have done before, select your new Repo, and go to *Branches* tab

3. Double click on the remote branch that you would like to test out

4. You should now see that all the files that you committed are checked out to your local

5. Now you can go and open up *FindingPrimeNumbers.sln* and build it and test it.