INTERSYSTEMS IRIS DATA PLATFORM

Git Source Control

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Prerequisites

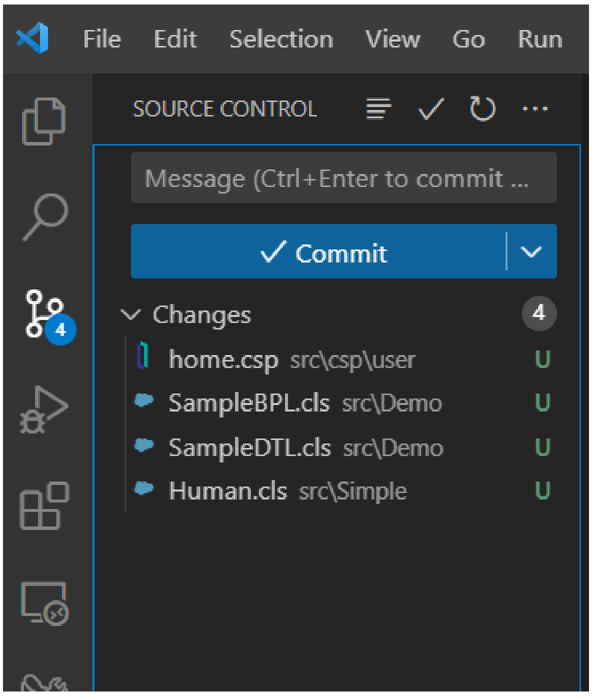
- GitHub Account
- Valid GitHub Repository
- A local project folder
- VS Code
    - GitHub Extension

1. Using VSCode Git Source Control

Go to Source Control on left panel, and you will see that the files created are not staged.

Note: If you haven't, don't forget to set your git username & email in git config,

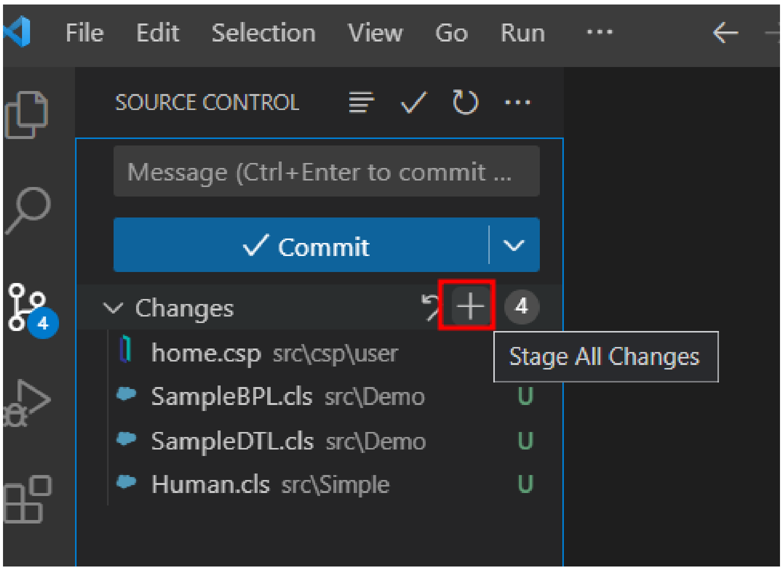
- To set username "`git config --global user.name <your username>`".
- To set email "`git config –global user.email <email>`".



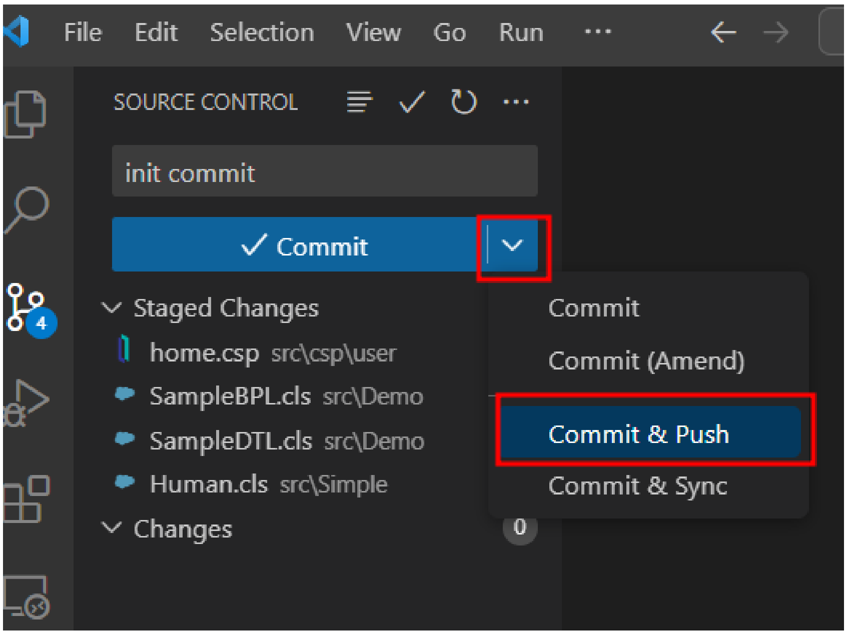
home.csp src\csp\user U
SampleBPL.cls src\Demo U
SampleDTL.cls src\Demo U
Human.cls src\Simple U

Click the **"+"** icon (you can do either each or one by one) and leave comments.

You can either do "commit" or "commit & push" to make it to the GitHub repository immediately.

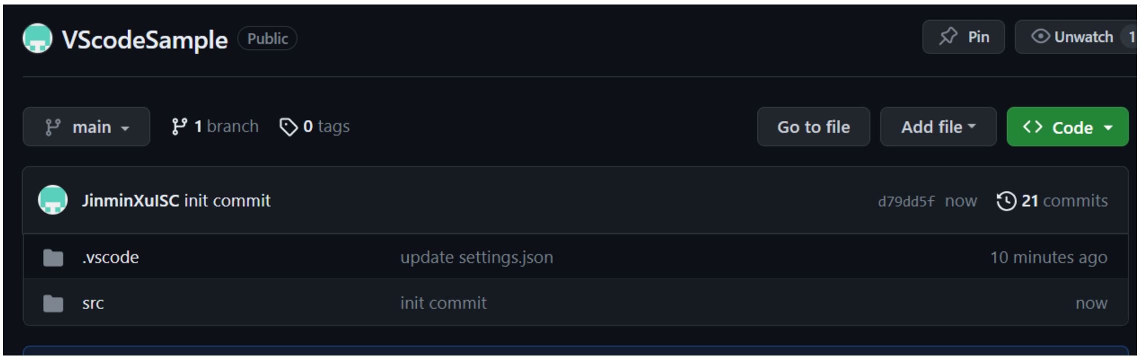


home.csp src\csp\user
SampleBPL.cls src\Demo U
SampleDTL.cls src\Demo U
Human.cls src\Simple U



init commit

home.csp src\csp\user
SampleBPL.cls src\Demo
SampleDTL.cls src\Demo
Human.cls src\Simple



JinminXuISC init commit d79dd5f now 21 commits

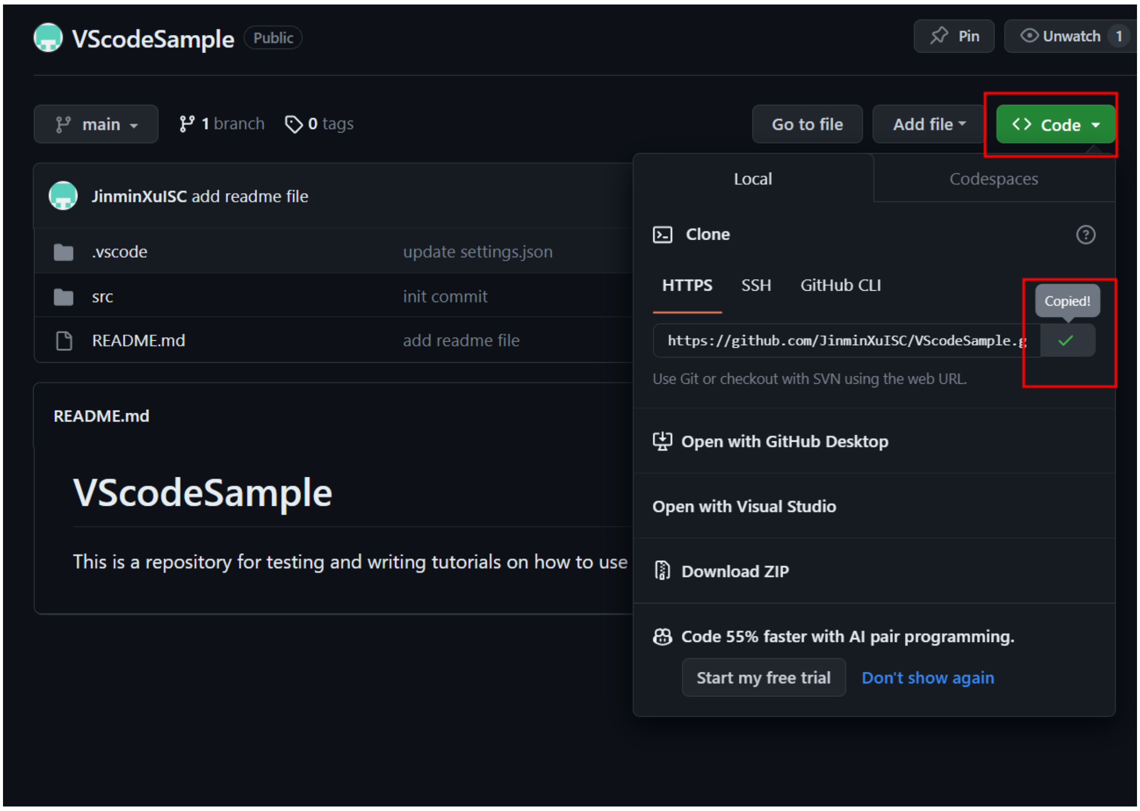
.vscode	update settings.json	10 minutes ago
src	init commit	now

2. Set your team of developers up to start developing git source-controlled applications on their PC’s using IRIS and VSCode

2.1 Clone repository to the local directory

In this example, the file repository created in the previous step will be used.

Code > copy the URL under HTTPS.



JinminXuISC add readme file

.vscode	update settings.json
src	init commit
README.md	add readme file

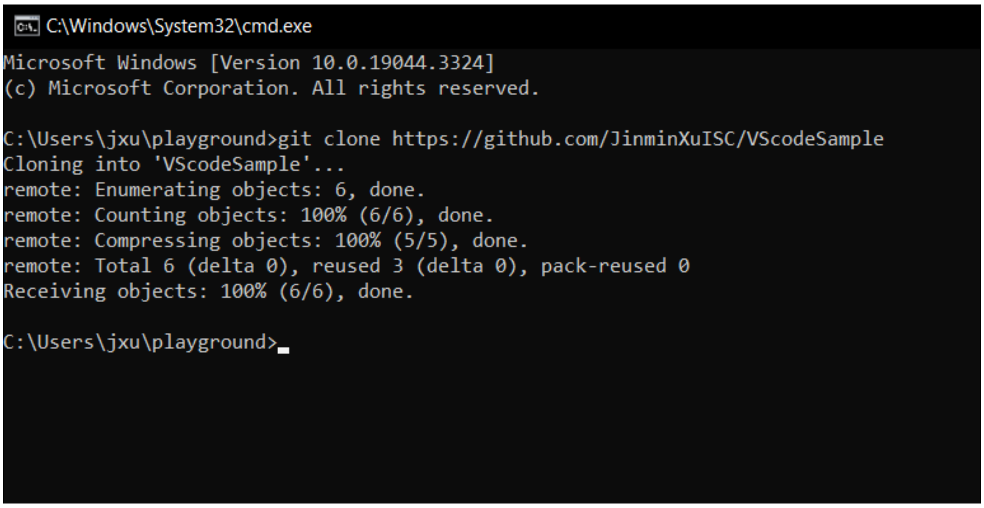
```
https://github.com/JinminXuISC/VScodeSample.g
```

Use Git or checkout with SVN using the web URL.

VScodeSample

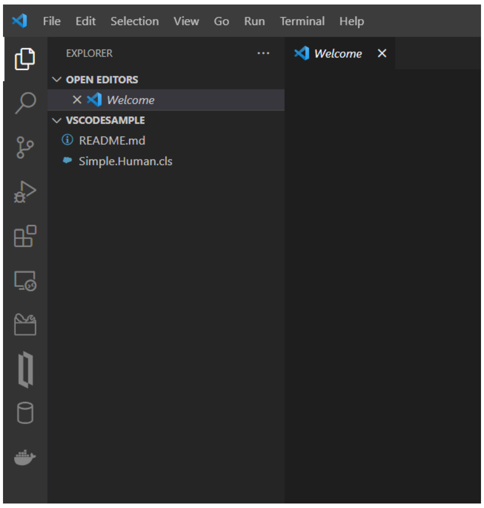
This is a repository for testing and writing tutorials on how to use

Open CLI (sitting at the correct file directory you wish to store), **enter the command** "`git clone <URL you copied>`".



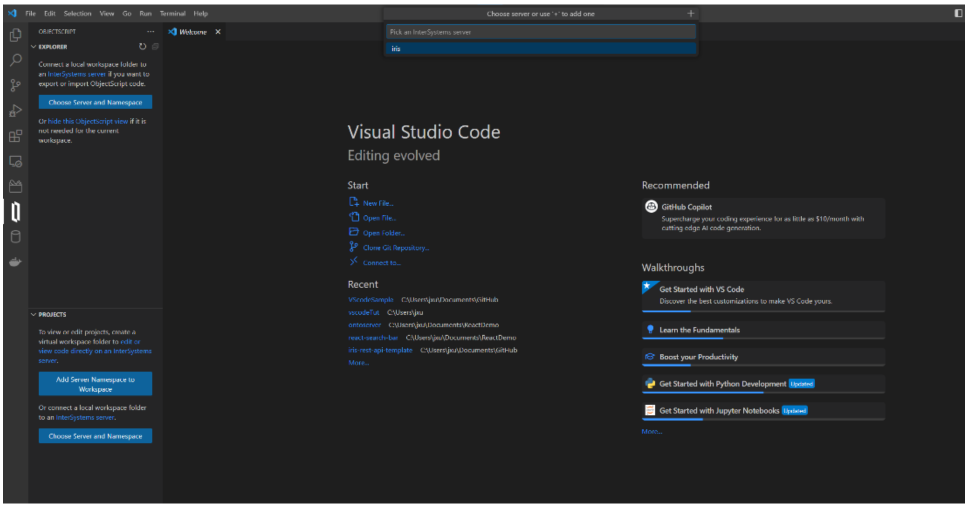
```
Microsoft Windows [Version 10.0.19044.3324]
(c) Microsoft Corporation. All rights reserved.

C:\Users\jxu\playground>git clone https://github.com/JinminXuISC/VScodeSample
Cloning into 'VScodeSample'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 6 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), done.

C:\Users\jxu\playground>_
```

Open the **Github repository cloned** (project folder) in the VS Code Explorer.



2.2 Import and Compile

Click ObjectScript (The InterSystems Logo) at the left panel > Choose Server and Name Space > Select Server > Click Allow > Enter the password for IRIS instance > choose the namespace.



Connect a local workspace folder to an InterSystems server if you want to export or import ObjectScript code.

Or hide this ObjectScript view if it is not needed for the current workspace.

To view or edit projects, create a virtual workspace folder to edit or view code directly on an InterSystems server.

Or connect a local workspace folder to an InterSystems server.

VScodeSample C:\Users\jxu\Documents\GitHub
vscodeTut C:\Users\jxu
ontoserver C:\Users\jxu\Documents\ReactDemo
react-search-bar C:\Users\jxu\Documents\ReactDemo
iris-rest-api-template C:\Users\jxu\Documents\GitHub

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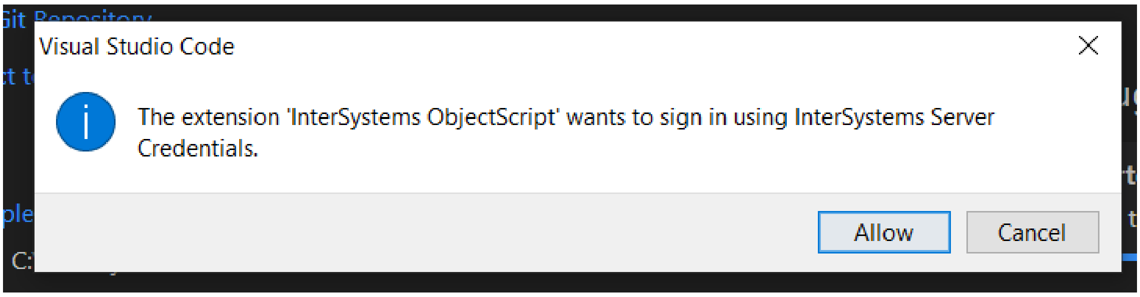
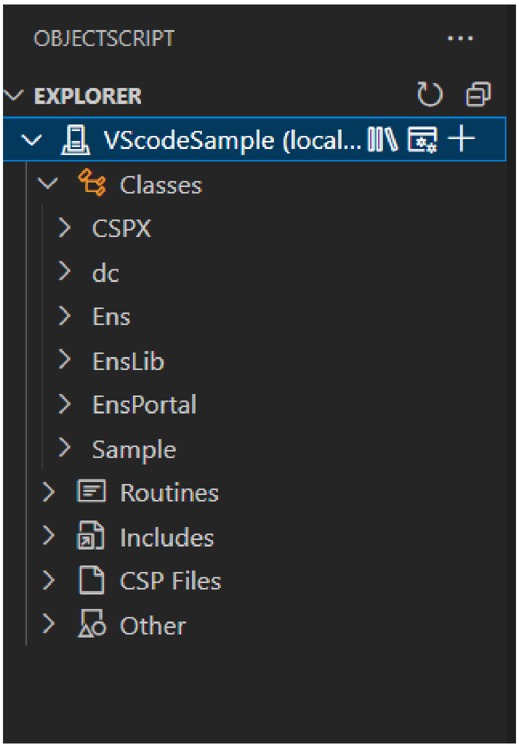
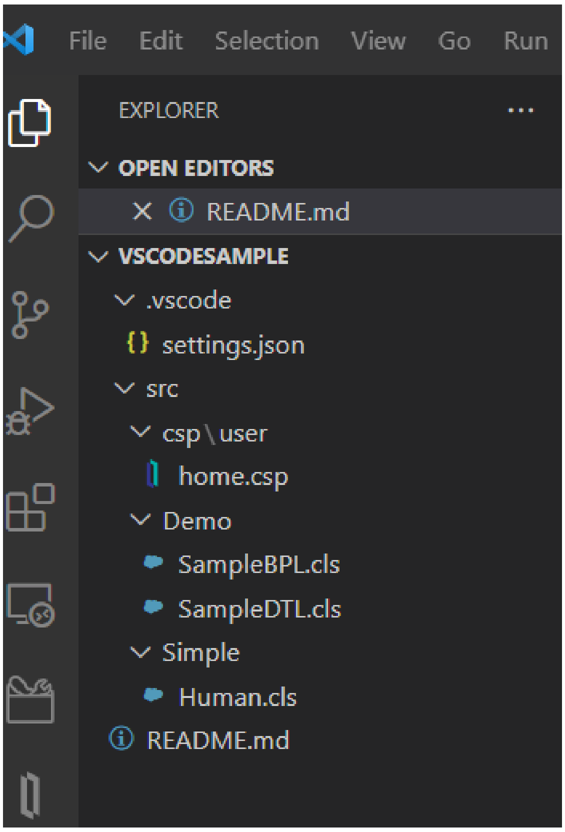


The extension 'InterSystems ObjectScript' wants to sign in using InterSystems Server Credentials.

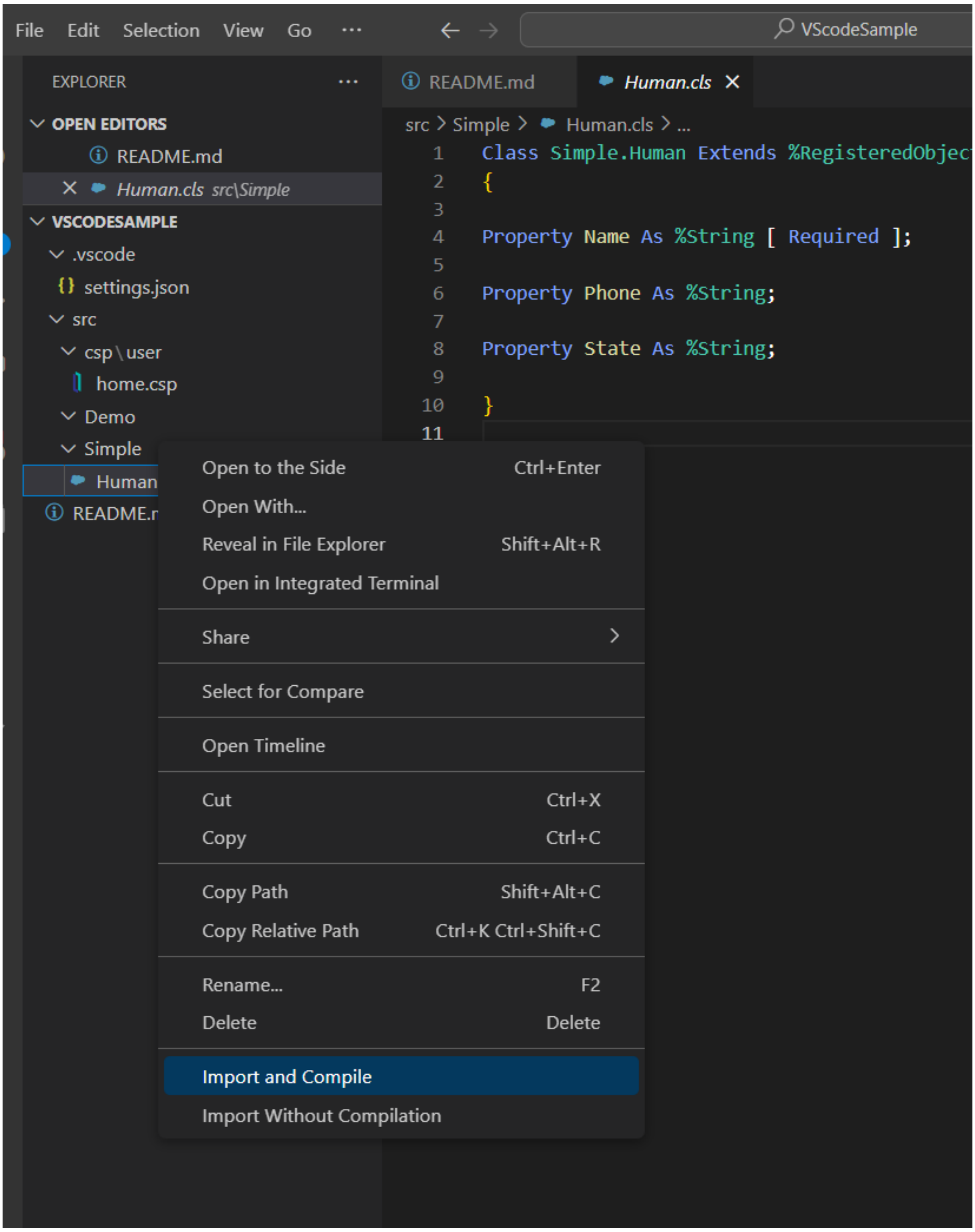
After logging in, there is **no class file** related to Github Repository cloned in this IRIS instance.



Back to VS Code Explorer.

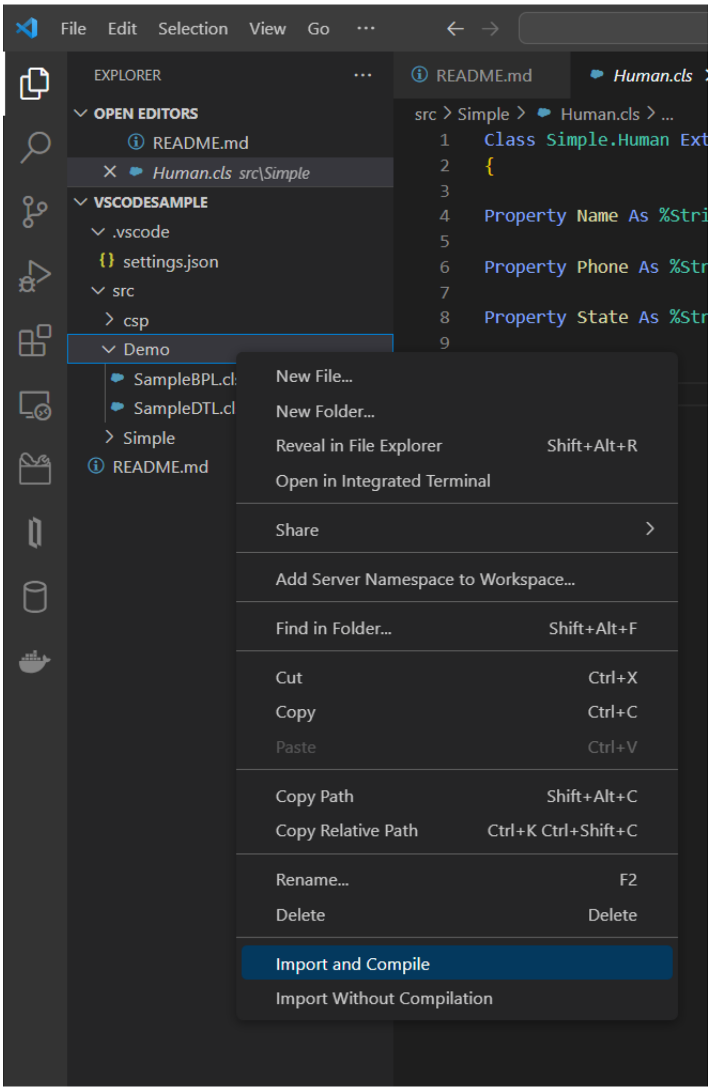


Right-click the files you would like to import into IRIS, Open the "`src`" folder `Simple > Human.cls`. **Choose Import and Compile**.



```
Class Simple.Human Extends %RegisteredObjec
{

Property Name As %String [ Required ];

Property Phone As %String;

Property State As %String;

}

```

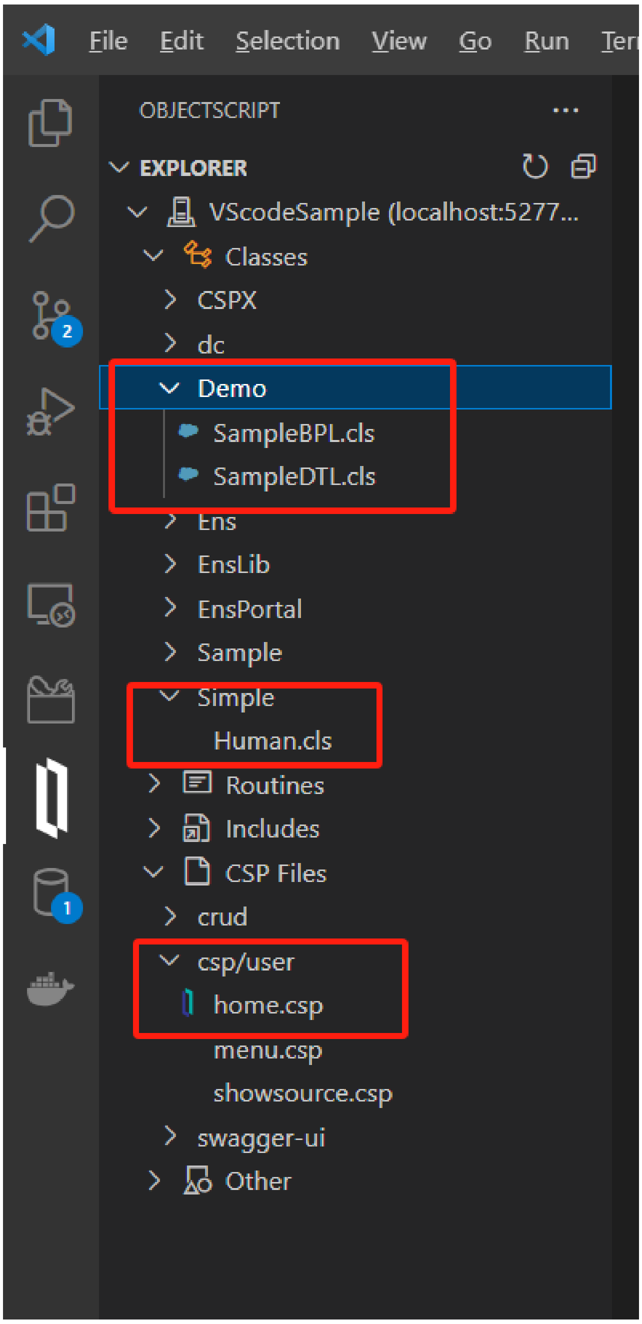
Repeat the steps above, **import and Compile DPL, DTL and CSP.**



```
Class Simple.Human Ext
{

Property Name As %Stri

Property Phone As %Str

Property State As %Str

```

Click Objectscript extension. Once you refresh the server, you will see the `Simple.Human.cls`, the `Demo package (BPL DTL)`, and `home.csp` under the "`Classes`". They have compiled and persisted into our IRIS instance.

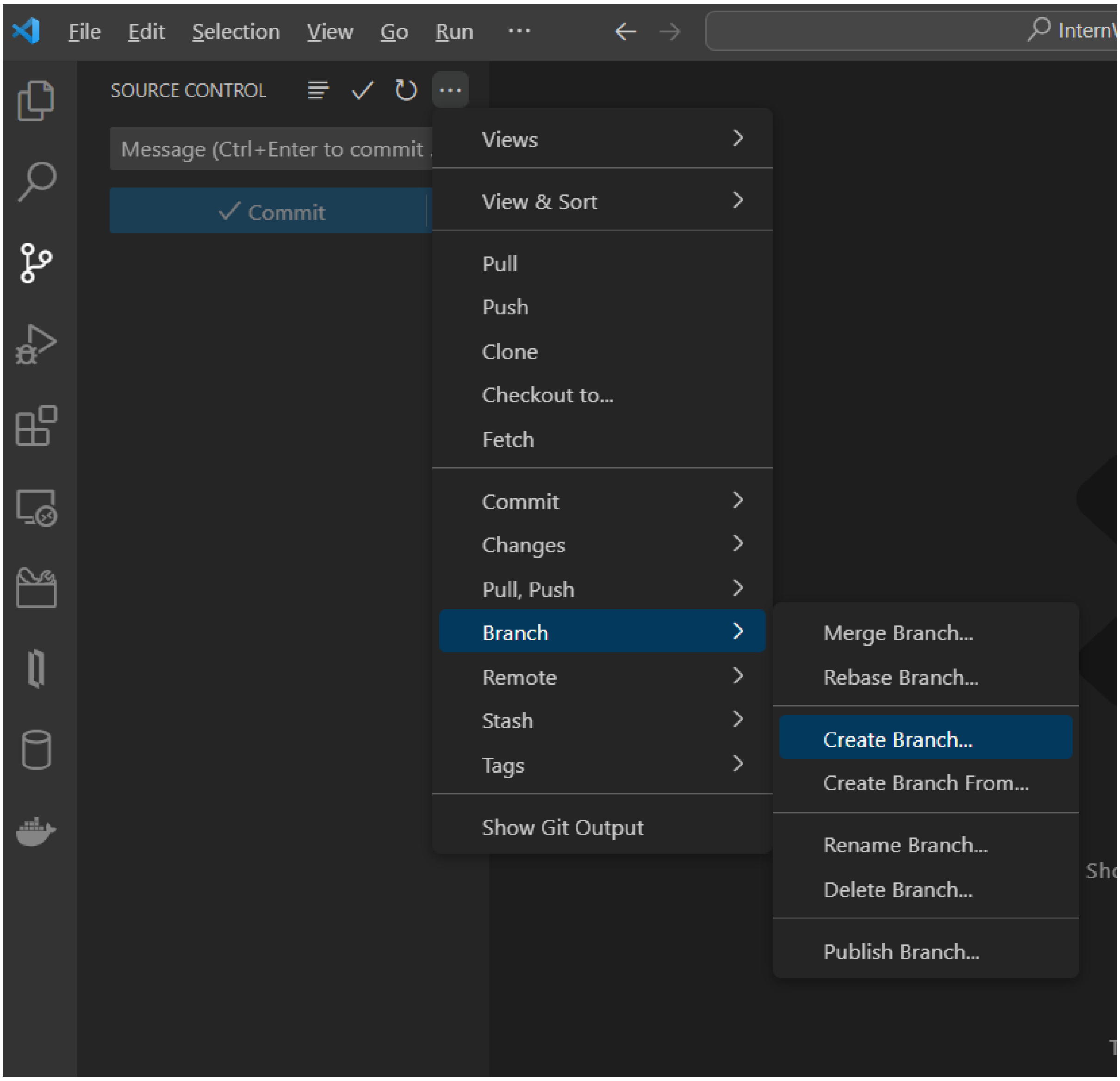
Note: If you want to import **all the files in this project**, you only need to select the “`src`” folder. **Right click** “`src`” **folder > “Import and Compile”.**


File Edit Selection View Go Run Ter
OBJECTSCRIPT
EXPLORER
VScodeSample (localhost:5277...
Classes
CSPX
dc
Demo
SampleBPL.cls
SampleDTL.cls
Ens
EnsLib
EnsPortal
Sample
Simple
Human.cls
Routines
Includes
CSP Files
crud
csp/user
home.csp
menu.csp
showsource.csp
swagger-ui
Other
2
1

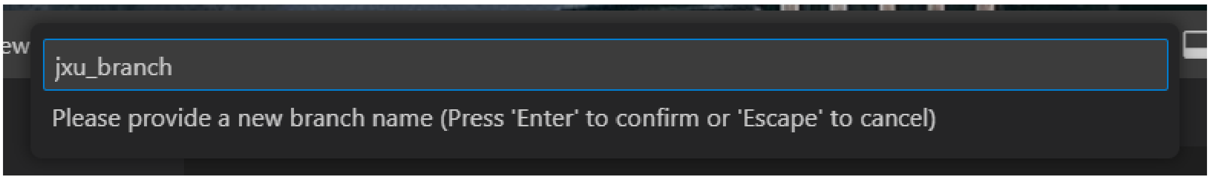
3. Branching (Version Control)

3.1 Create your working branch

“Source control” > “Views and More Actions (3 dots)” > “Branch” > “Create Branch…”



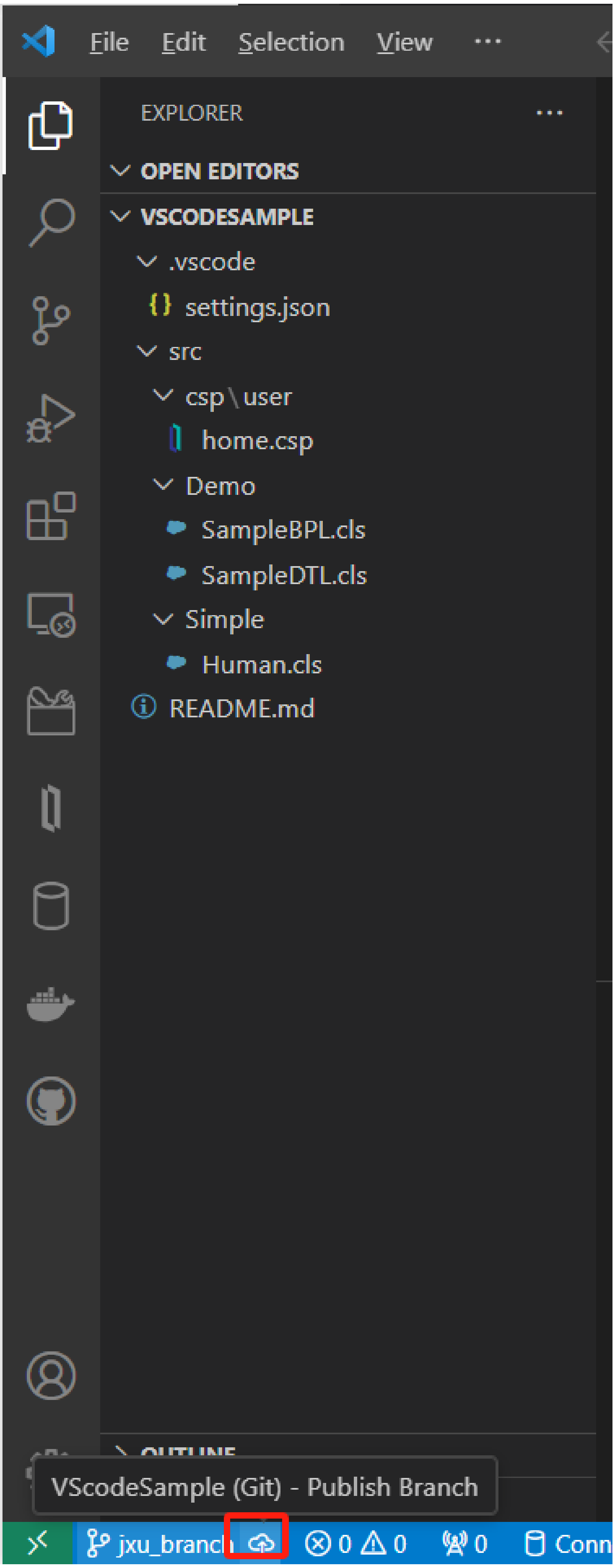
Enter branch name.



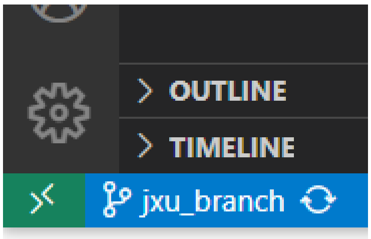
jxu_branch

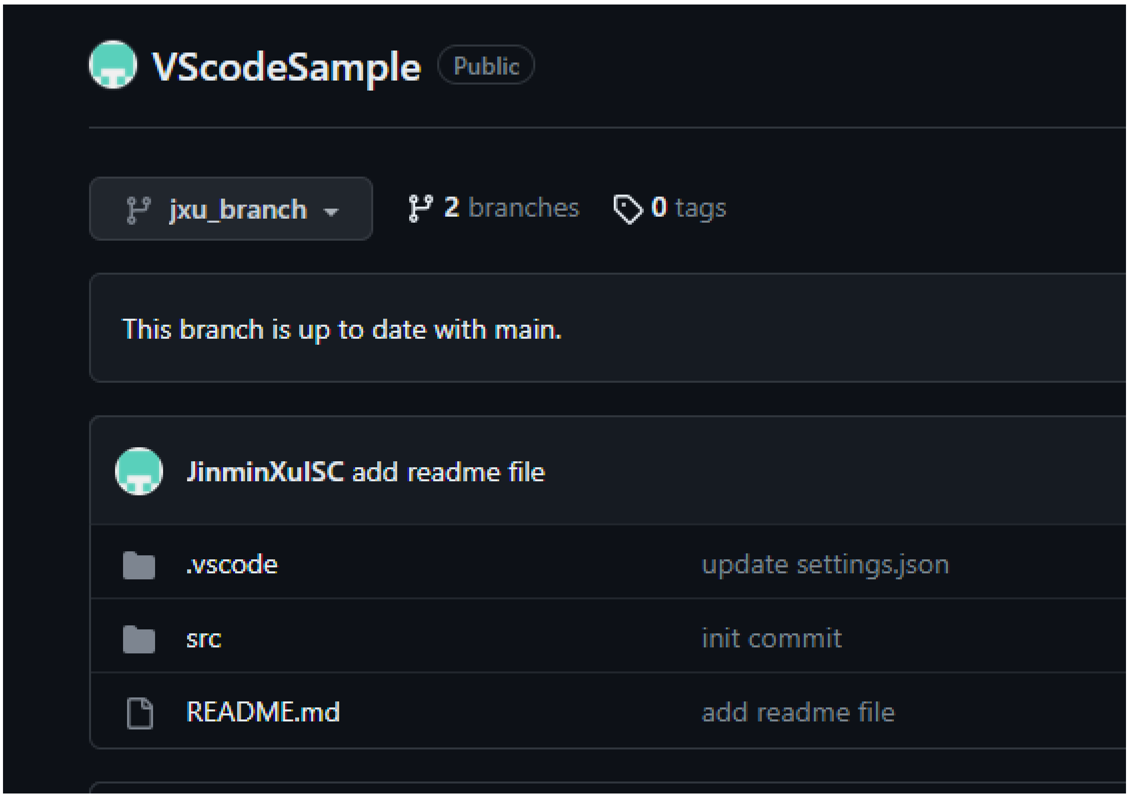
Please provide a new branch name (Press 'Enter' to confirm or 'Escape' to cancel)

Click the **“cloud liked” icon at the bottom to publish the branch** you created.


File
Edit
Selection
View
...
EXPLORER
OPEN EDITORS
VSCODESAMPLE
.vscode
settings.json
src
csp \ user
home.csp
Demo
SampleBPL.cls
SampleDTL.cls
Simple
Human.cls
README.md
OUTLINE
VScodeSample (Git) - Publish Branch
jxu_branch
0
0
0
Conn

Wait until the **icon turns into the circular arrow** shown below and your working branch is created and published.





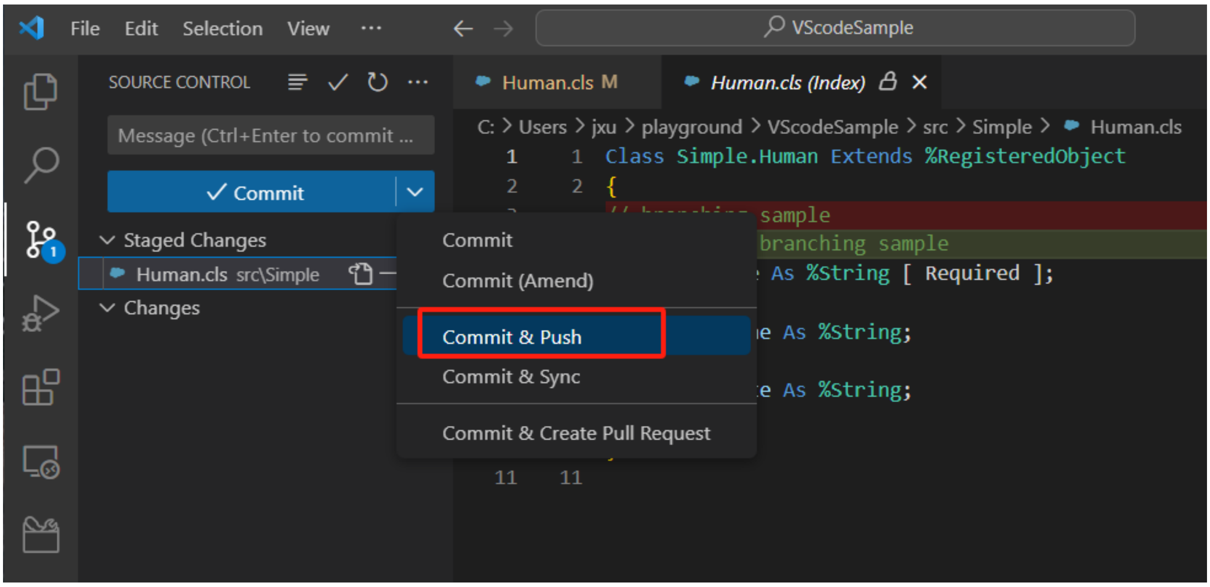
This branch is up to date with main.

JinminXuISC add readme file

.vscode	update settings.json
src	init commit
README.md	add readme file

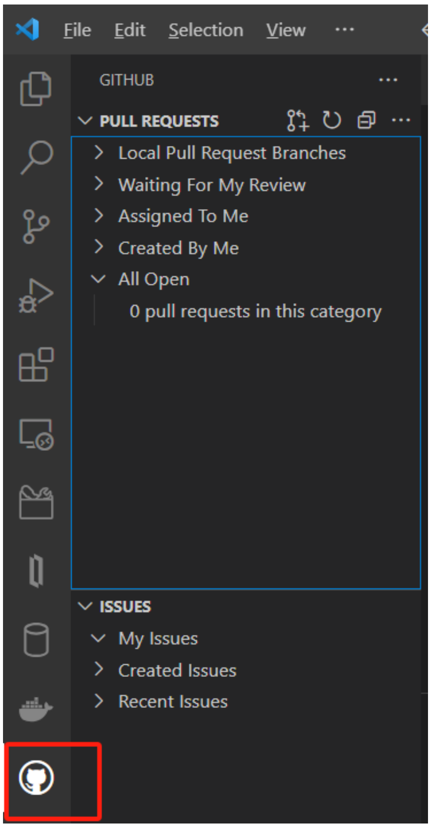
3.2 Create Pull requests (Merge Branch)

After you've written the code, push & commit it to the branch you're currently working on.

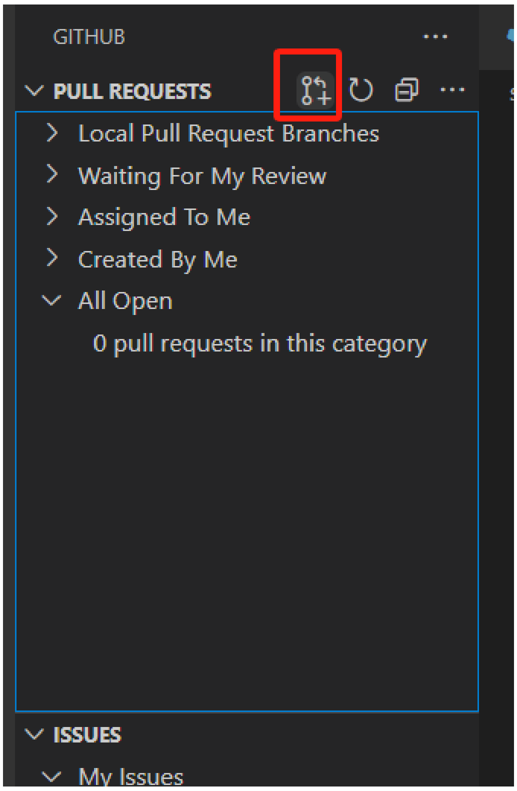


```
Class Simple.Human Extends %RegisteredObject
{
// branching sample
branching sample
 As %String [ Required ];
e As %String;
e As %String;
```

Go to **GitHub extension**.

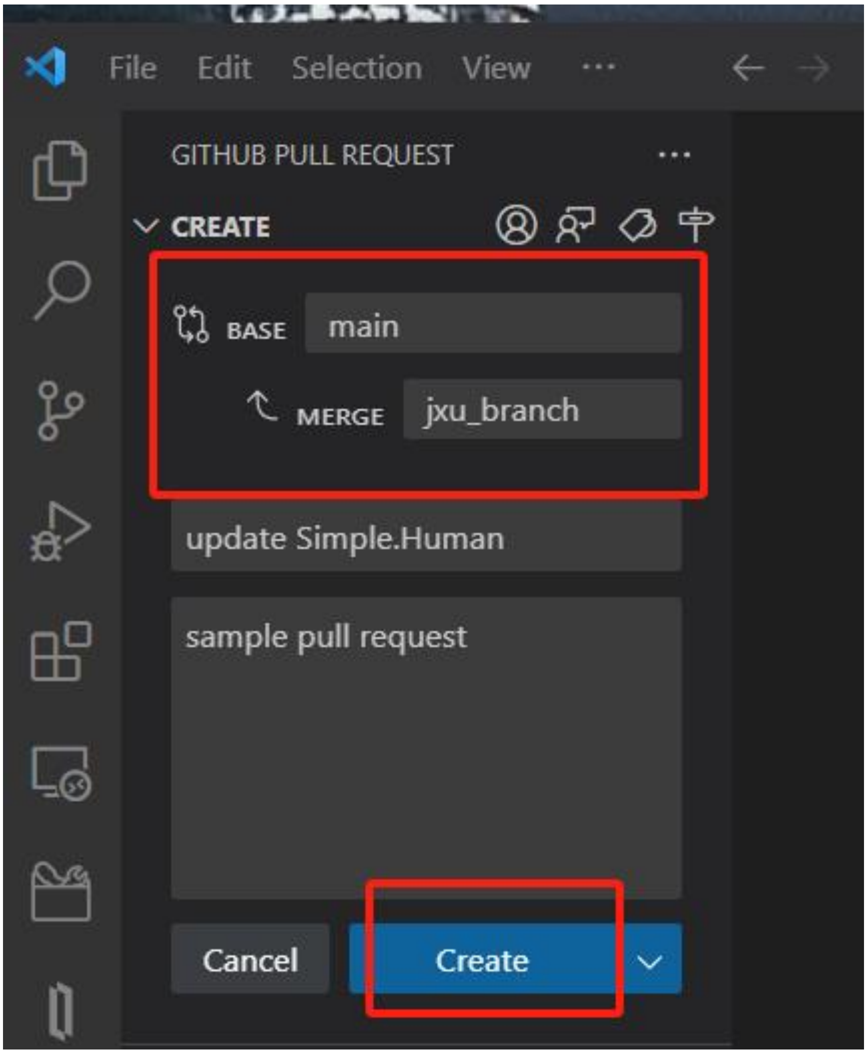


Click the button next to the “**Pull Requests**”.



You are now in the **create pull request screen**. Choose **source** and **merge** branch, leave comments, and **click “Create”**.

Note: In this example, the branch where code changes are made is jxu_branch and needs to be synchronized to the main branch. Therefore, MERGE branch should be “jxu_branch”, BASE branch should be “main”.



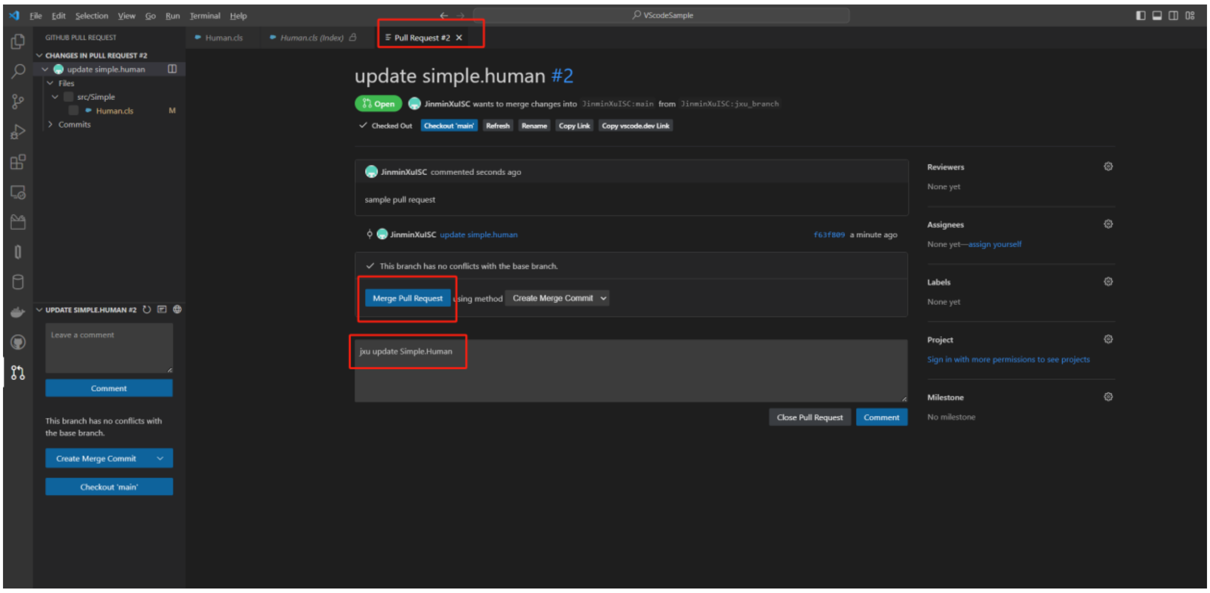
BASE main

MERGE jxu_branch

update Simple.Human

sample pull request

After completing the previous step, there will be a check out popup in VS Code, leave your comment and **click “merge pull request”**.



Leave a comment

This branch has no conflicts with the base branch.

update simple.human #2

JinminXuISC wants to merge changes into JinminXuISC:main from JinminXuISC:jxu_branch

JinminXuISC commented seconds ago

sample pull request

JinminXuISC update simple.human f63f809 a minute ago

This branch has no conflicts with the base branch.

Merge Pull Request using method Create Merge Commit

jxu update Simple.Human

Reviewers: None yet

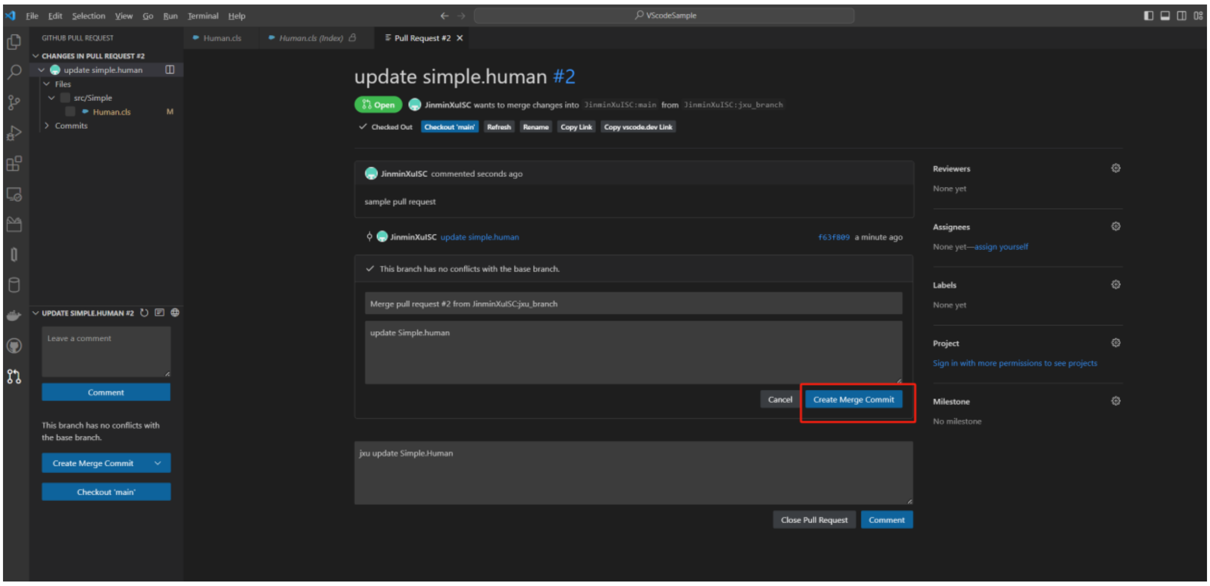
Assignees: None yet—assign yourself

Labels: None yet

Project: Sign in with more permissions to see projects

Milestone: No milestone

Click “Create Merge Commit”



update simple.human #2

JinminXuISC wants to merge changes into JinminXuISC:main from JinminXuISC:jxu_branch

JinminXuISC commented seconds ago

sample pull request

JinminXuISC update simple.human f63f809 a minute ago

This branch has no conflicts with the base branch.

Merge pull request #2 from JinminXuISC:jxu_branch

update Simple.human

jxu update Simple.Human

Reviewers: None yet

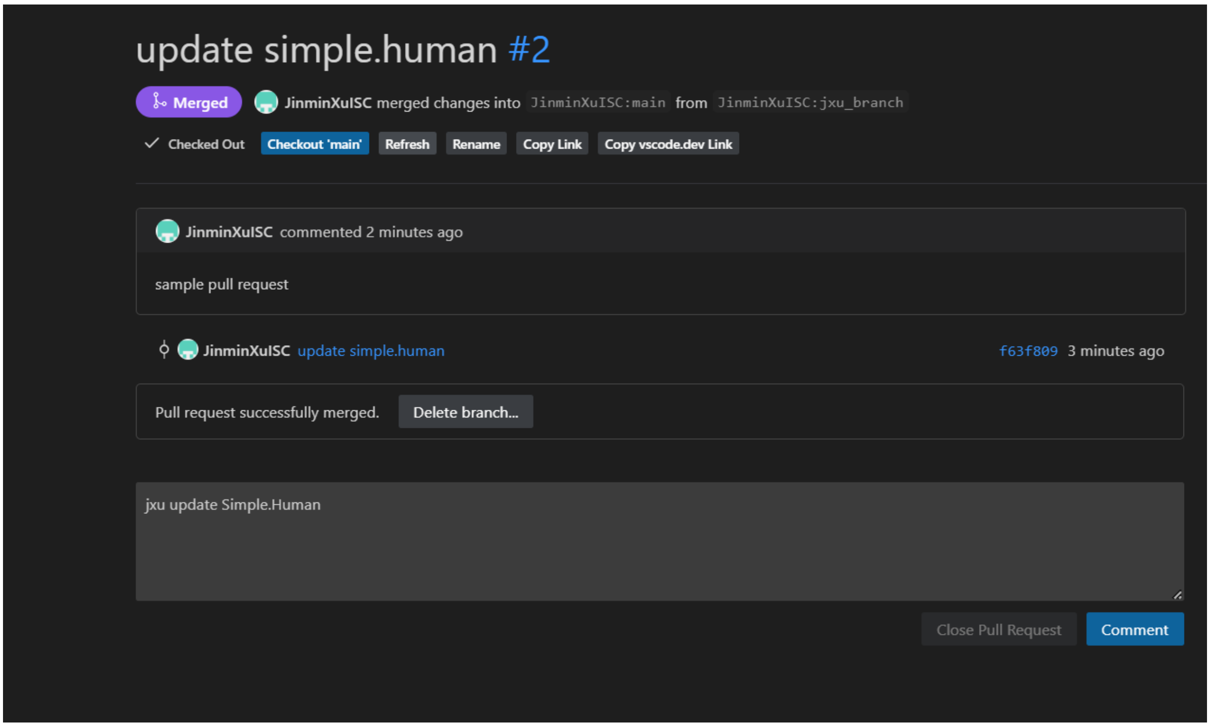
Assignees: None yet—assign yourself

Labels: None yet

Project: Sign in with more permissions to see projects

Milestone: No milestone

Because there are no conflicts in the current environment and the current account's repository permissions is owner, and this pull request automatically performs merge operation.



update simple.human #2

JinminXuISC merged changes into JinminXuISC:main from JinminXuISC:jxu_branch

JinminXuISC commented 2 minutes ago

sample pull request

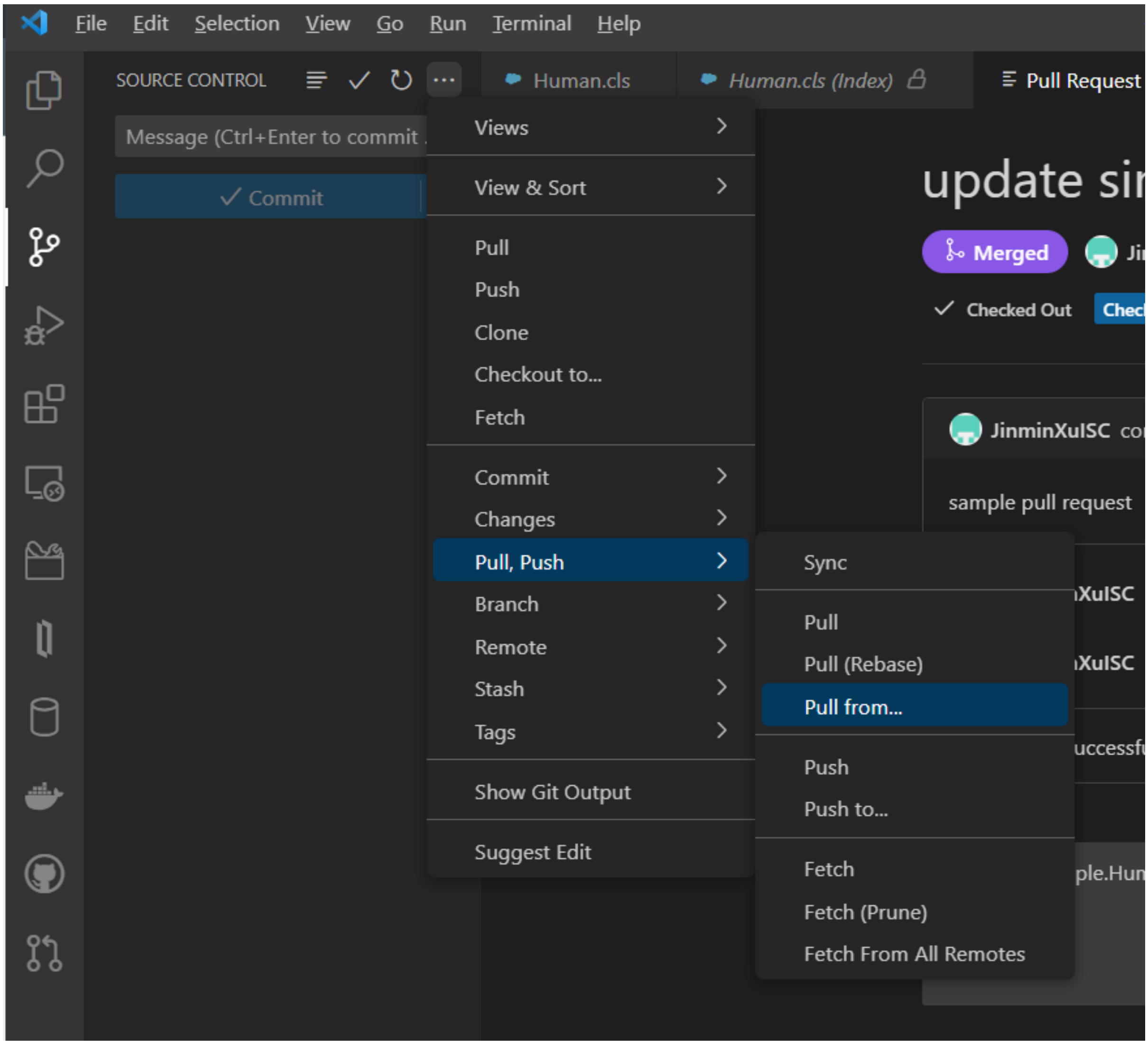
JinminXuISC update simple.human f63f809 3 minutes ago

Pull request successfully merged.

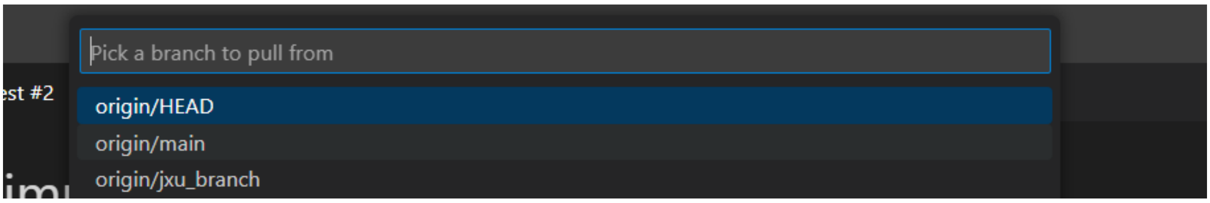
jxu update Simple.Human

3.3 Pull the latest update from main branch to an outdated version of branch. (Check in)

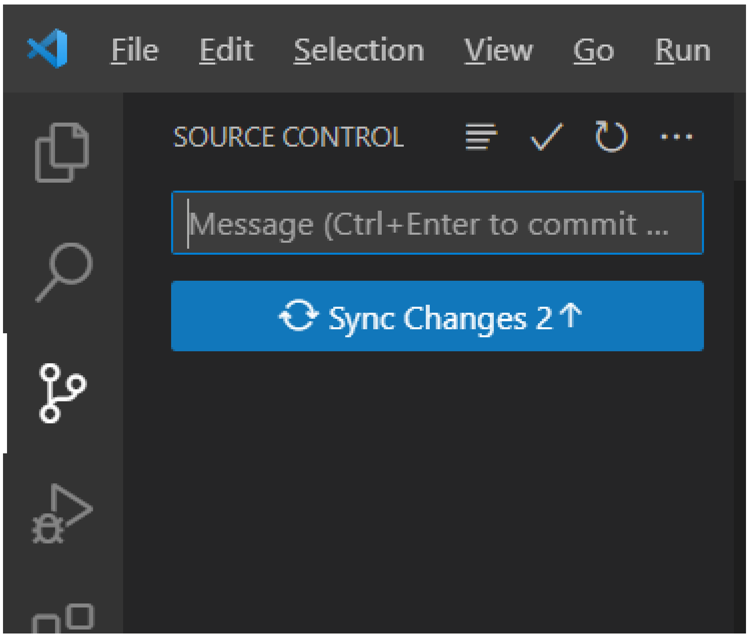
Under the **outdated branch**, go to **“Source Control” > “Pull, Push” > “Pull from…”**.



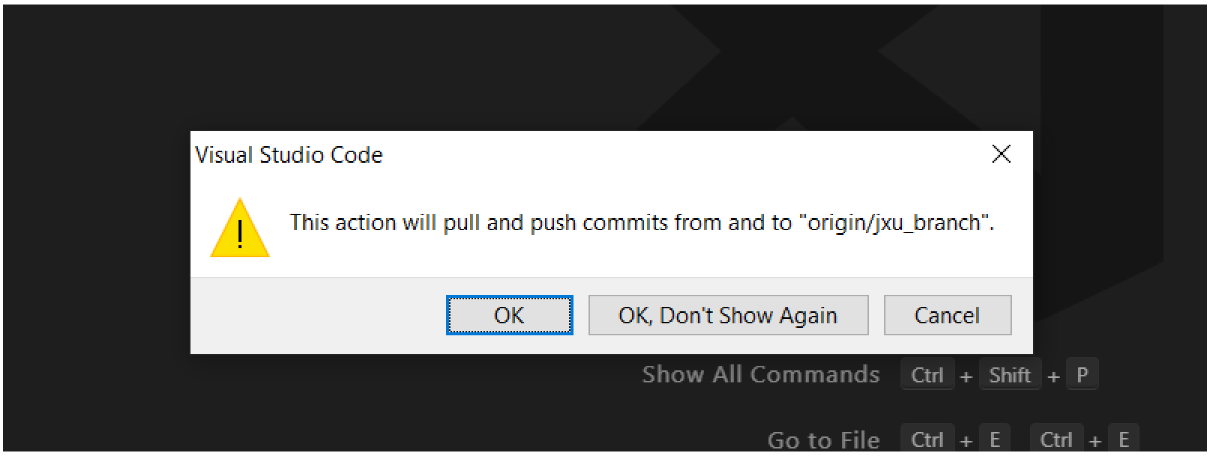
Choose “main”.



Click “Sync Changes”.

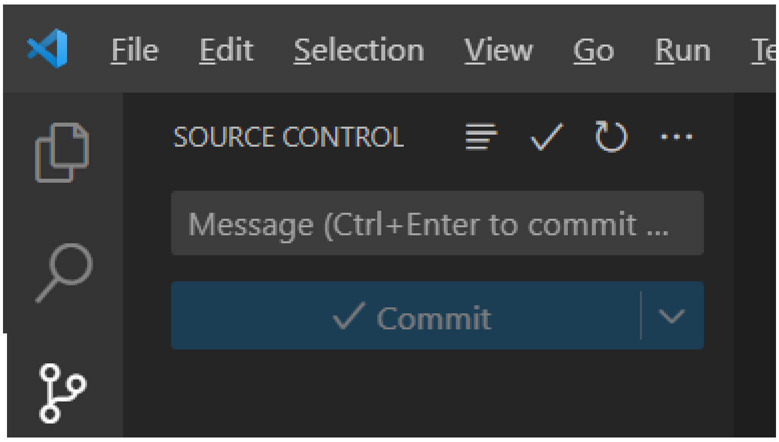


When the pop-up window appears click “OK” and the version synchronization is complete once it has finished loading. The status of “Source Control” extension should be as the same as the second screenshot.


Visual Studio Code

This action will pull and push commits from and to "origin/jxu_branch".

OK
OK, Don't Show Again
Cancel
Show All Commands Ctrl + Shift + P
Go to File Ctrl + E Ctrl + E


File
Edit
Selection
View
Go
Run
Te
SOURCE CONTROL
Message (Ctrl+Enter to commit ...
✓ Commit