



ALPHA & OMEGA
SEMICONDUCTOR

Version Control Introduction

August 17, 2022



AOS: Powering a Greener Future™



1. Download and Install Git SCM - <https://gitforwindows.org/>
2. Sign up for GitHub - <https://github.com/>
3. Download and Install TortoiseGit - <https://tortoisegit.org/>



Install TortoiseGit

Welcome to the TortoiseGit 2.13.0.1 (64 bit) Setup Wizard

The Setup Wizard will install TortoiseGit 2.13.0.1 (64 bit) on your computer. Click Next to continue or Cancel to exit the Setup Wizard.

Please read the following important information before continuing.

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TortoiseGit is free. You don't have to pay for it, and you can use it any way you want. It is developed as an Open Source project under the GNU General Public License (GPL). That means you have full access to the source code of this program. You can find it on our website at <https://tortoisegit.org/>

Should you wish to modify or redistribute this program, or any part of it, you should read the full terms and conditions set out in the license agreement before doing so. A copy of the license is available on our website.

If you simply wish to install and use this software, you need only be aware of the disclaimer conditions in the license, which are set out below.

NO WARRANTY

Because the program is licensed free of charge, there is no warranty for the program.

Custom Setup

Pick an install location and which features you want.

Click on the icons in the tree below to change the way features will be installed.

Location: C:\Program Files\TortoiseGit\

Ready to Install

The Setup Wizard is ready to begin the Complete installation

Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

Installing TortoiseGit 2.13.0.1 (64 bit)

Please wait while the Setup Wizard installs TortoiseGit 2.13.0.1 (64 bit). This may take several minutes.

Status: Publishing product information

Completing the TortoiseGit 2.13.0.1 (64 bit) Setup Wizard

Click the Finish button to exit the Setup Wizard.

Show Changelog
 Run first start wizard

Thanks for using TortoiseGit. You can show your appreciation and support future development by donating!

Welcome to TortoiseGit!

TortoiseGit can be localized using language packs.

In the following combobox you can find all installed language packs which can be used by this version of TortoiseGit.

If you want to use a translated version of TortoiseGit and your language is missing, [download](#) and install a matching language pack now and hit "Refresh" before continuing.

Language: English Refresh

Download language packs: <https://tortoisegit.org/download/>

Welcome to TortoiseGit!

TortoiseGit is designed as a Shell Extension. Therefore the main interaction with TortoiseGit will be using the context menu of the Windows shell such as the Windows Explorer.

This is the First Start Wizard which will help you configure the basic settings. TortoiseGit is highly configurable, so it is advisable that you have a look into its settings dialog. The settings dialog is reachable using the start menu or the context menu of the Windows Explorer: TortoiseGit -> Settings.

Please see the [manual](#) for general hints. E.g. in most dialogs there are some shared shortcuts such as F5 for refresh or CTRL+F for search and oftentimes there are powerful context menus.

We hope you enjoy using TortoiseGit! In case of questions or problems, please consult our manual or go to <https://tortoisegit.org/support/>

Setup SOP

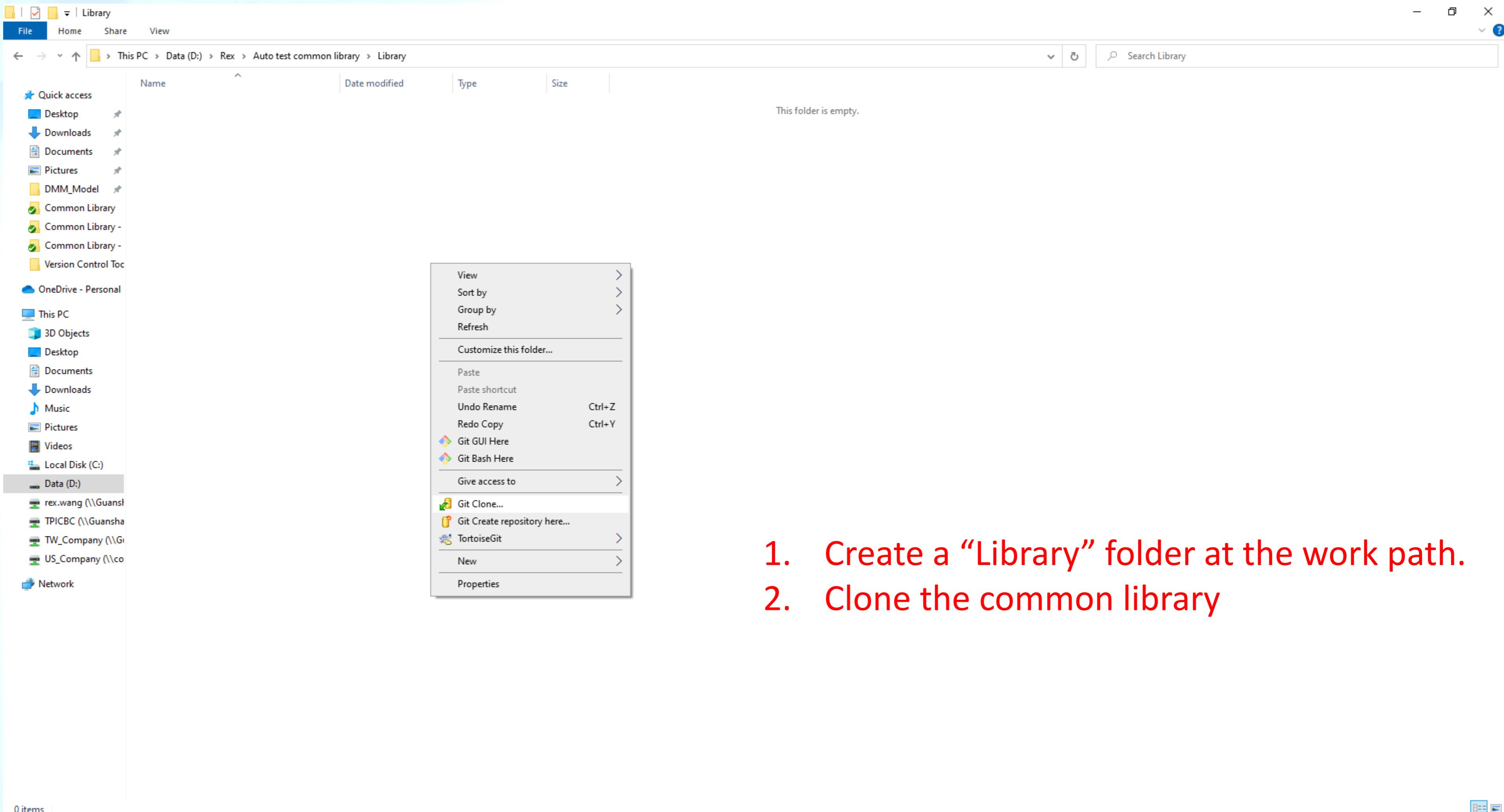


The image displays three sequential windows from the TortoiseGit First Start Wizard:

- Configure git.exe**: Shows the path to the Git executable (C:\Program Files\Git\bin) and a "Check now" button.
- Configure user information**: Requests user name and email. The "Name" field contains "AOS-RexWang" and the "Email" field contains "rex.wang@tw-aosmd.com". These fields are highlighted with a red box. Below them is a note about global configuration and a "Don't store these settings now" checkbox.
- Authentication and credential store**: Details SSH and HTTP configuration options, including the selection of "TortoiseGitPlink" as the SSH client and a "Generate PuTTY key pair" button.

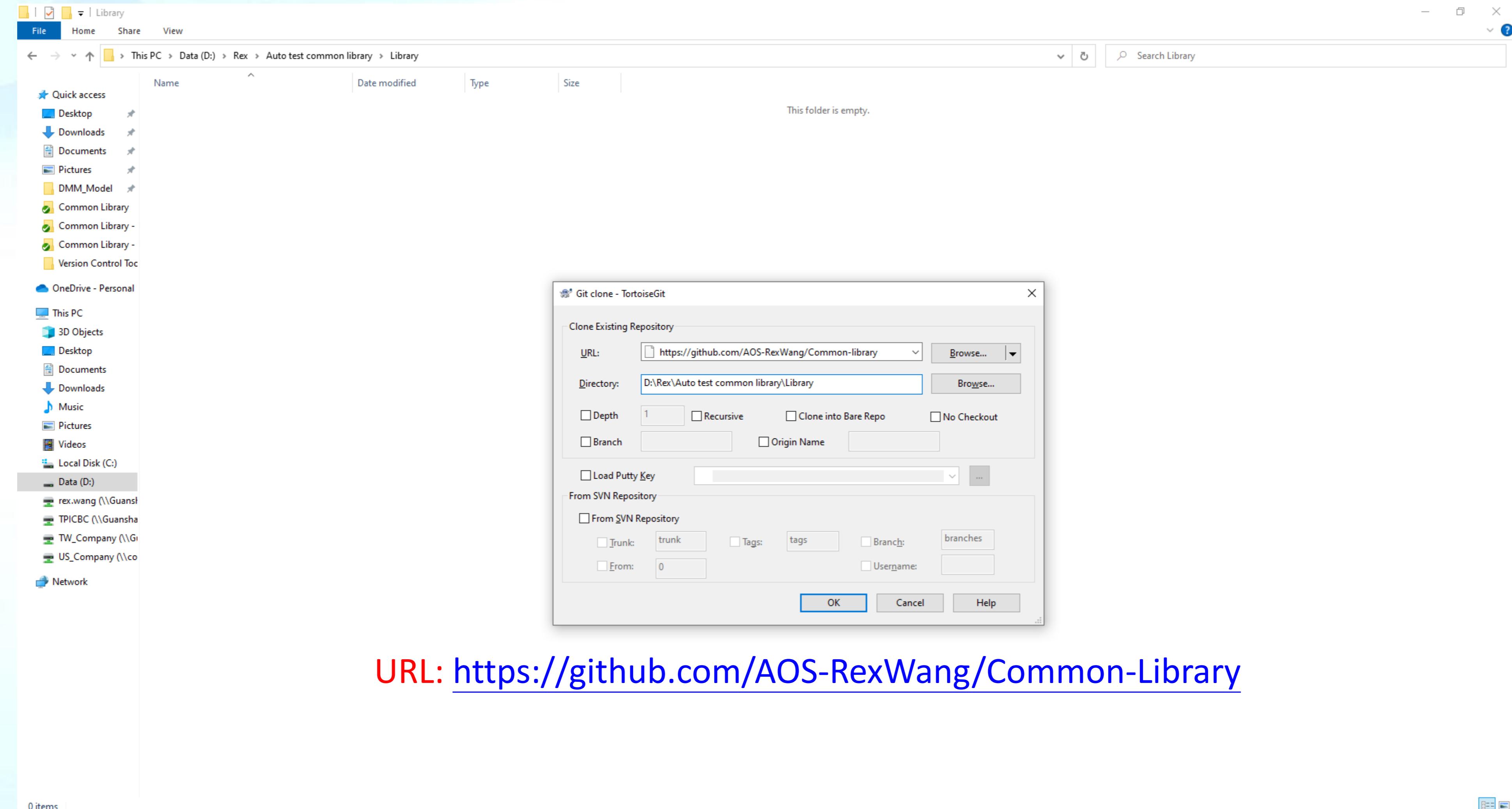
Use AOS name and email for identification

Clone the common library



1. Create a “Library” folder at the work path.
2. Clone the common library

Clone the common library



URL: <https://github.com/AOS-RexWang/Common-Library>

Clone the common library



File Home Share View

← → ↑ ↓ Library

Name Date modified Type Size

.git 8/17/2022 3:13 PM File folder

Document 8/17/2022 3:13 PM File folder

Common_library_example.py 8/17/2022 3:13 PM PY File 9 KB

DAQ_Model.py 8/17/2022 3:13 PM PY File 2 KB

DC_Load_Model.py 8/17/2022 3:13 PM PY File 3 KB

DC_Source_Model.py 8/17/2022 3:13 PM PY File 7 KB

DMM_2_Model.py 8/17/2022 3:13 PM PY File 1 KB

DMM_Model.py 8/17/2022 3:13 PM PY File 1 KB

Enable_Control_Model.py 8/17/2022 3:13 PM PY File 5 KB

Function_Generator_Model.py 8/17/2022 3:13 PM PY File 2 KB

INSTR.py 8/17/2022 3:13 PM PY File 105 KB

Load_Meter_Model.py 8/17/2022 3:13 PM PY File 3 KB

Oscilloscope_Model.py 8/17/2022 3:13 PM PY File 44 KB

Power_Meter_Model.py 8/17/2022 3:13 PM PY File 2 KB

README.md 8/17/2022 3:13 PM MD File 1 KB

Source_Meter_Model.py 8/17/2022 3:13 PM PY File 4 KB

16 items

D:\Rex\Auto test common library\Library - Git Command Progress - TortoiseGit

Resolving deltas

common library\Library" Cloning into 'D:\Rex\Auto test common library\Library'... POST git-upload-pack (185 bytes) POST git-upload-pack (212 bytes) remote: Enumerating objects: 32, done. remote: Counting objects: 100% (32/32), done. remote: Compressing objects: 100% (19/19), done. remote: Total 32 (delta 14), reused 28 (delta 13), pack-reused 0 Receiving objects: 100% (32/32), 4.45 MiB | 930.00 KiB/s, done. Resolving deltas: 100% (14/14), done.

Success (6906 ms @ 8/17/2022 3:13:32 PM)

Show log Close Abort

Attention: Back up the common library (all files include “.git” folder) before edit.

Commit the common library



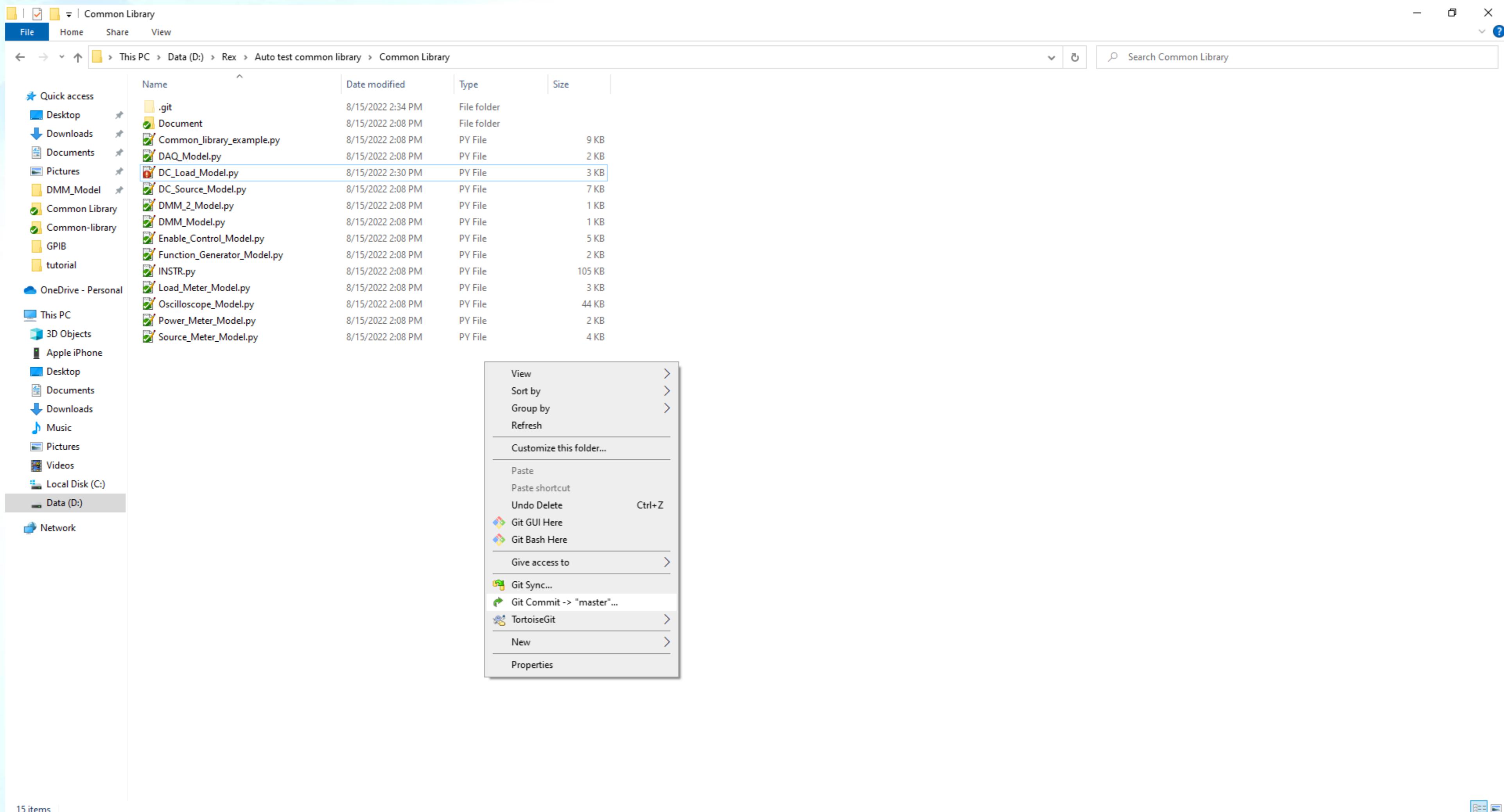
TortoiseGitMerge interface showing a file comparison between two versions of DC_Load_Model.py.

The left pane shows the file as of commit d6ba04eb, and the right pane shows it as of commit 5938b875. A red arrow points from the right pane to the line "CMD_Set_Auto_Load = "CONFIGURE:AUTO:LOAD ON\"", labeled "Modify version". Another red arrow points to the same line in the right pane, labeled "Add command".

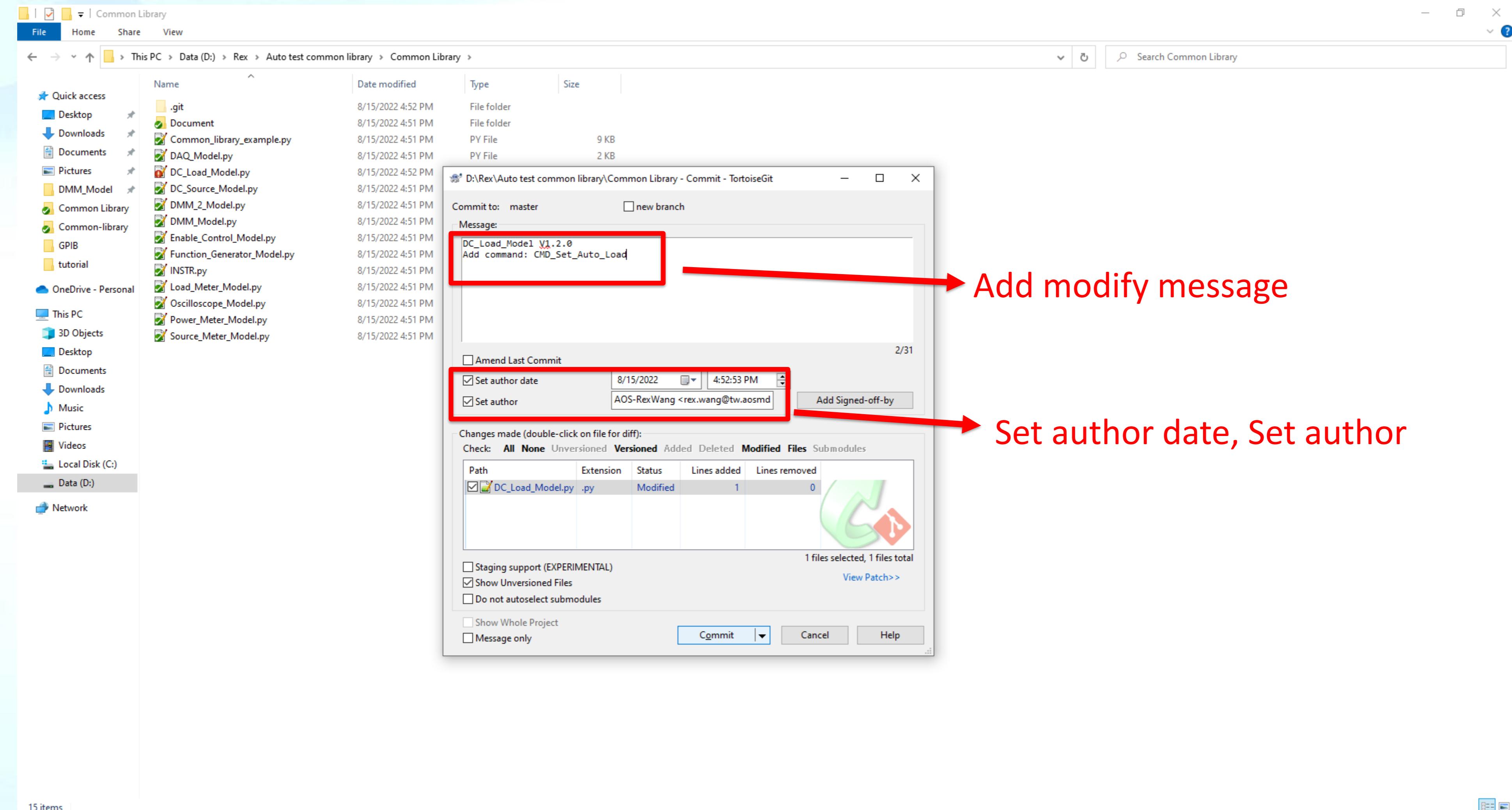
```
DC_Load_Model.py: d6ba04eb
1 """
2 -* @File.....:DC_Load_Model.py
3 -* @Version...: V1.1.0
4 -* @Date.....: July 01, 2022
5 -* @Brief....: Child class of DC_Load.
6 -* @Author...: Rex Wang
7 -* @Last editor: Rex Wang
8 -* Copyright: (C) 2021 Alpha & Omega Semiconductor Ltd. All rights reserved.
9 """
10
11 from Library.INSTR import DC_Load
12
13 class Chroma_6312A(DC_Load):
14     CMD_Get_Load_State = "LOAD?"
15     CMD_Measure_Voltage = "MEASURE:VOLTage?"
16     CMD_Measure_Current = "MEASURE:CURRENT?"
17     CMD_Set_Mode = "MODE %s"
18     CMD_Set_Channel = "CHANNEL %d"
19     CMD_Set_Dynamic_Current = "CURRENT:DYNAMIC:L%#.%3f"
20     CMD_Set_Dynamic_Current_Slew_Rate = "CURRENT:DYNAMIC:%s.%3f"
21     CMD_Set_Dynamic_Current_Period = "CURRENT:DYNAMIC:T%#.%f"
22     CMD_Set_Load_Short_Off = "LOAD:SHORT OFF"
23     CMD_Set_Load_Short_On = "LOAD:SHORT ON"
24     CMD_Set_Load_State_Off = "Load OFF"
25     CMD_Set_Load_State_On = "LOAD ON"
26     CMD_Set_Load_State_All_Off = ":ABORT"
27     CMD_Set_Load_State_All_On = ":RUN"
28     CMD_Set_Resistance = "RESistance:L1.%3f"
29     CMD_Set_Resistance_Slew_Rate = "RESistance:%s.%3f"
30     CMD_Set_Static_Current = "CURrent:STATIC:L1.%3f"
31     CMD_Set_Static_Current_Slew_Rate = "CURrent:STATIC:%s.%3f"
32
33 class Chroma_63600_Series(DC_Load):
34     CMD_Get_Load_State = "LOAD?"
35     CMD_Measure_Voltage = "MEASURE:VOLTage?"
36     CMD_Measure_Current = "MEASURE:CURRENT?"
37     CMD_Set_Mode = "MODE %s"
38     CMD_Set_Channel = "CHANNEL %d"
39     CMD_Set_Dynamic_Current = "CURRENT:DYNAMIC:L%#.%3f"
40     CMD_Set_Dynamic_Current_Slew_Rate = "CURRENT:DYNAMIC:%s.%3f"
41     CMD_Set_Dynamic_Current_Period = "CURRENT:DYNAMIC:T%#.%f"
42     CMD_Set_Load_Short_Off = "LOAD:SHORT OFF"
43     CMD_Set_Load_Short_On = "LOAD:SHORT ON"
44     CMD_Set_Load_State_Off = "Load OFF"
45     CMD_Set_Load_State_On = "LOAD ON"
46     CMD_Set_Load_State_All_Off = ":ABORT"
47     CMD_Set_Load_State_All_On = ":RUN"
48     CMD_Set_Resistance = "RESistance:STATIC:L1.%3f"
49     CMD_Set_Resistance_Slew_Rate = ""
50     CMD_Set_Static_Current = "CURrent:STATIC:L1.%3f"
51     CMD_Set_Static_Current_Slew_Rate = "CURrent:STATIC:%s.%3f"
52
53
54
55
56
57
58
59
59
CMD_Set_Load_Short_On = "LOAD:SHORT ON"
CMD_Set_Load_Short_On = "LOAD:SHORT ON"
```

Left View: ASCII CRLF Tab 4 - 1 Right View: ASCII CRLF Tab 4 + 2

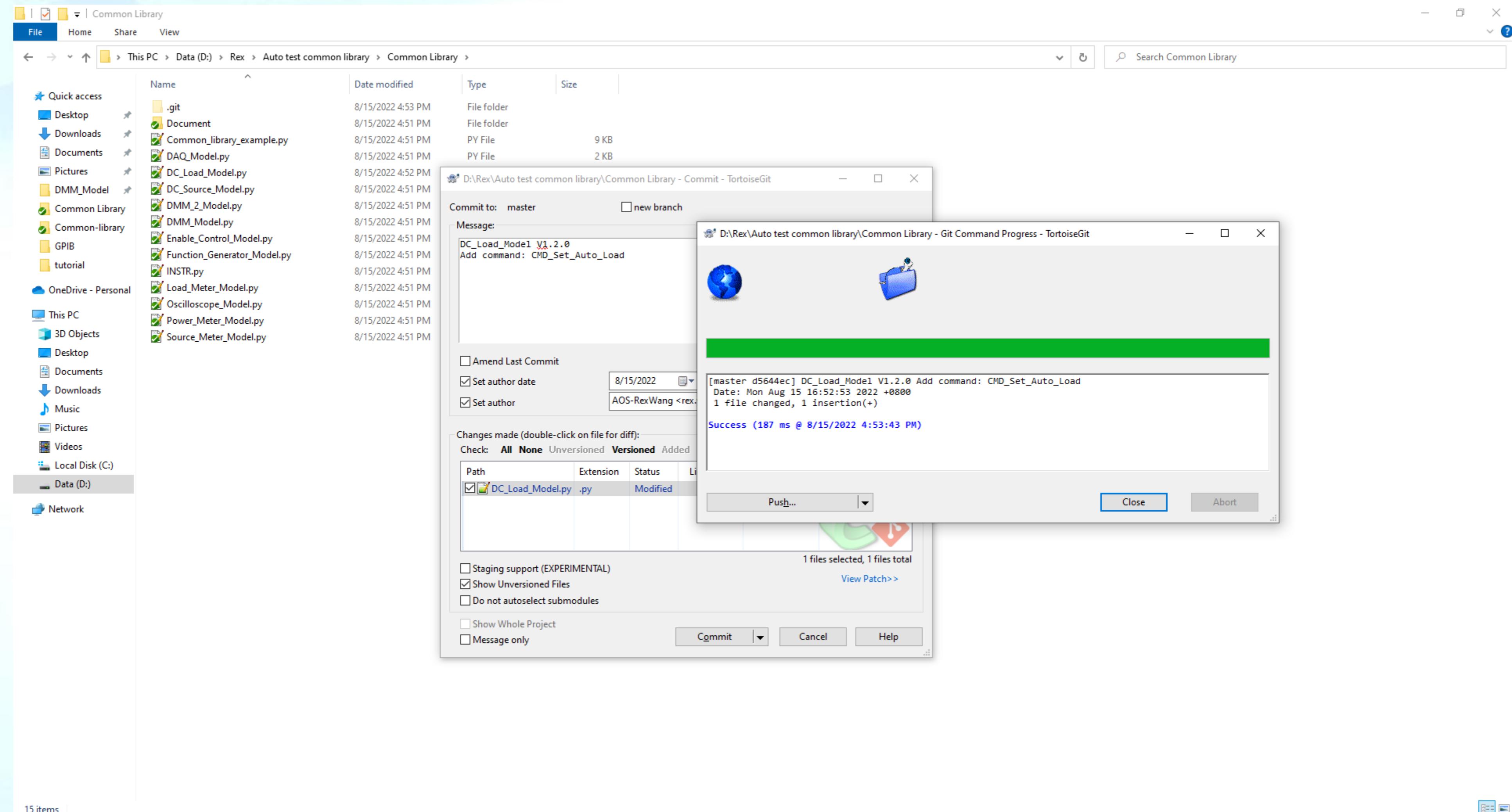
Commit the common library



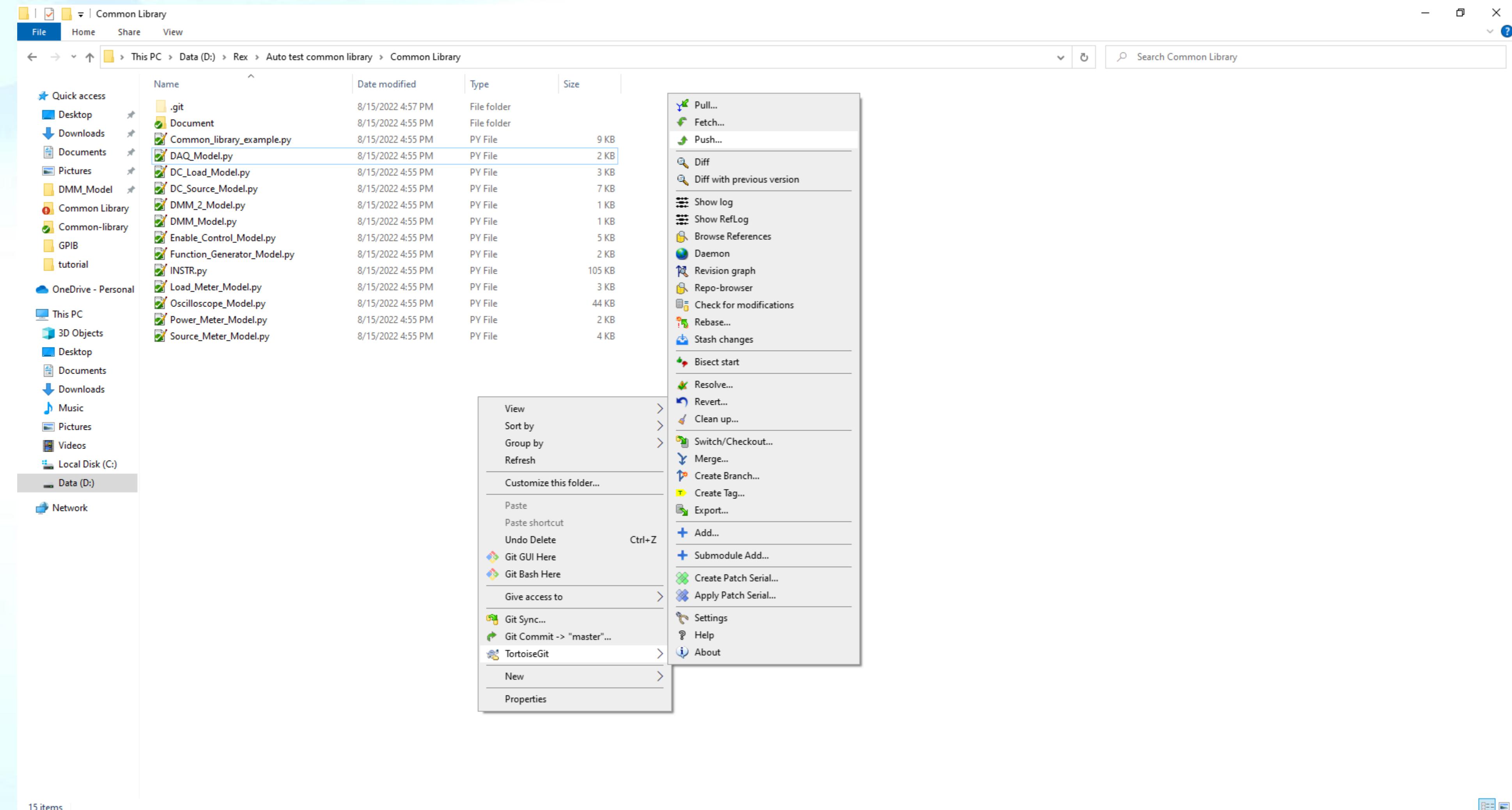
Commit the common library



Commit the common library



Push the common library



Push the common library



The screenshot shows a Windows File Explorer window with the following details:

- File Explorer Path:** This PC > Data (D:) > Rex > Auto test common library > Common Library
- Items in 'Common Library':**

| Name | Date modified | Type | Size |
|-----------------------------|-------------------|-------------|------|
| .git | 8/15/2022 4:57 PM | File folder | |
| Document | 8/15/2022 4:55 PM | File folder | |
| Common_library_example.py | 8/15/2022 4:55 PM | PY File | 9 KB |
| DAQ_Model.py | 8/15/2022 4:55 PM | PY File | 2 KB |
| DC_Load_Model.py | 8/15/2022 4:55 PM | PY File | 3 KB |
| DC_Source_Model.py | 8/15/2022 4:55 PM | PY File | 7 KB |
| DMM_2_Model.py | 8/15/2022 4:55 PM | PY File | 1 KB |
| DMM_Model.py | 8/15/2022 4:55 PM | PY File | 1 KB |
| Enable_Control_Model.py | 8/15/2022 4:55 PM | PY File | 5 KB |
| Function_Generator_Model.py | 8/15/2022 4:55 PM | PY File | |
| INSTR.py | 8/15/2022 4:55 PM | PY File | |
| Load_Meter_Model.py | 8/15/2022 4:55 PM | PY File | |
| Oscilloscope_Model.py | 8/15/2022 4:55 PM | PY File | |
| Power_Meter_Model.py | 8/15/2022 4:55 PM | PY File | |
| Source_Meter_Model.py | 8/15/2022 4:55 PM | PY File | |
- TortoiseGit Push Dialog:**
 - Ref:** Push all branches (unchecked)
 - Local:** master
 - Remote:** origin
 - Destination:** Remote (radio button selected)
 - Options:**
 - force with lease (unchecked)
 - force (unchecked)
 - Include Tags (unchecked)
 - Autoload Putty Key (checked)
 - Set upstream/track remote branch (checked)
 - Always push to the selected remote archive for this local branch (unchecked)
 - Always push to the selected remote branch for this local branch (unchecked)
 - Recurse submodule:** None
 - Push option:** (dropdown menu)

Push the common library



The screenshot shows a Windows File Explorer window with the following details:

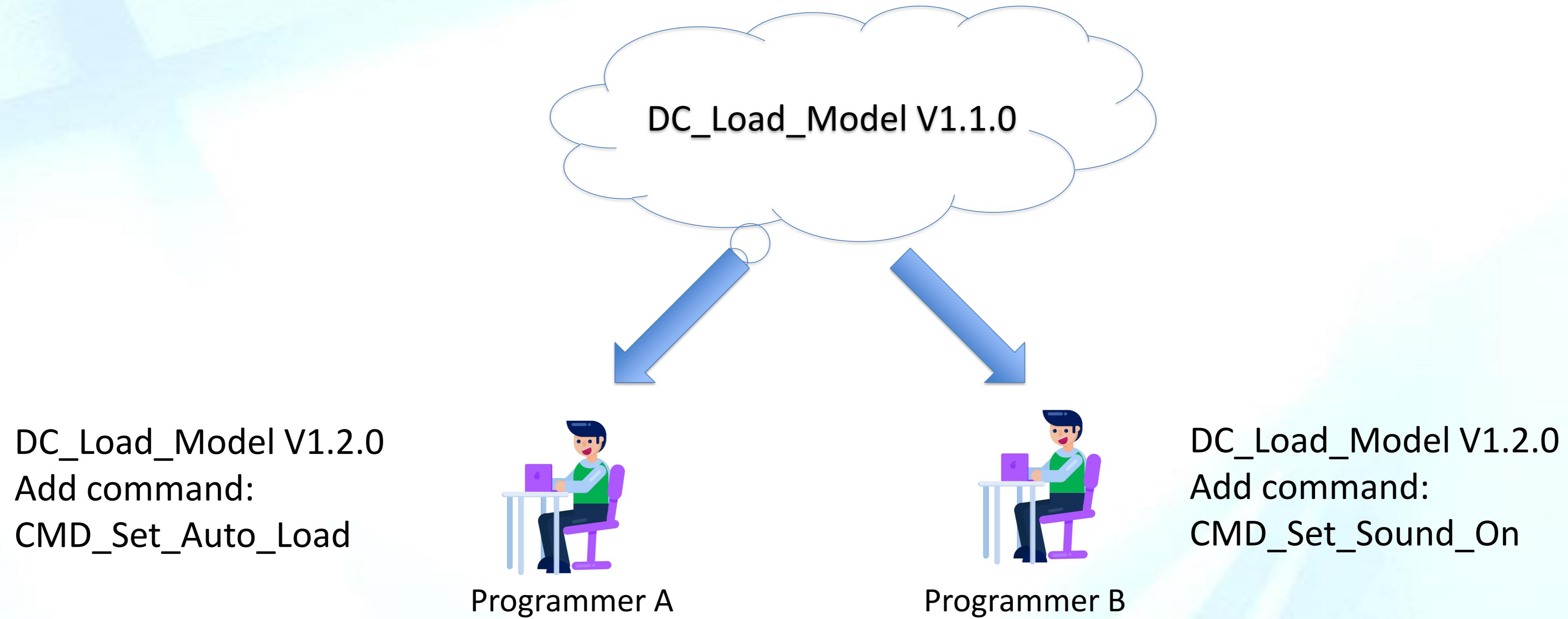
- File Explorer Title Bar:** Common Library
- Address Bar:** This PC > Data (D:) > Rex > Auto test common library > Common Library
- Search Bar:** Search Common Library
- Left Sidebar (Quick access):** Desktop, Downloads, Documents, Pictures, DMM_Model, Common Library, Common-library, GPIB, tutorial, OneDrive - Personal, This PC, 3D Objects, Desktop, Documents, Downloads, Music, Pictures, Videos, Local Disk (C:), Data (D:), Network.
- Content Area:** A list of files in the 'Common Library' folder:

| Name | Date modified | Type | Size |
|-----------------------------|-------------------|-------------|--------|
| .git | 8/15/2022 4:58 PM | File folder | |
| Document | 8/15/2022 4:55 PM | File folder | |
| Common_library_example.py | 8/15/2022 4:55 PM | PY File | 9 KB |
| DAQ_Model.py | 8/15/2022 4:55 PM | PY File | 2 KB |
| DC_Load_Model.py | 8/15/2022 4:55 PM | PY File | 3 KB |
| DC_Source_Model.py | 8/15/2022 4:55 PM | PY File | 7 KB |
| DMM_2_Model.py | 8/15/2022 4:55 PM | PY File | 1 KB |
| DMM_Model.py | 8/15/2022 4:55 PM | PY File | 1 KB |
| Enable_Control_Model.py | 8/15/2022 4:55 PM | PY File | 5 KB |
| Function_Generator_Model.py | 8/15/2022 4:55 PM | PY File | 2 KB |
| INSTR.py | 8/15/2022 4:55 PM | PY File | 105 KB |
| Load_Meter_Model.py | 8/15/2022 4:55 PM | PY File | 3 KB |
| Oscilloscope_Model.py | 8/15/2022 4:55 PM | PY File | 44 KB |
| Power_Meter_Model.py | 8/15/2022 4:55 PM | PY File | 2 KB |
| Source_Meter_Model.py | 8/15/2022 4:55 PM | PY File | 4 KB |
- TortoiseGit Progress Dialog:** D:\Rex\Auto test common library\Common Library - Git Command Progress - TortoiseGit
remote: Resolving deltas

writing objects: 100% (3/3), 386 bytes | 386.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
branch 'master' set up to track 'origin/master'.
To <https://github.com/AOS-RexLang/Common-Library>
d6ba04e..5938b87 master -> master

Success (4469 ms @ 8/15/2022 4:58:40 PM)
- Buttons:** Create pull request, Close, Abort

Two programmers modify at the same time



Programmer A and B pull the `DC_Load_Model V1.1.0` at the same time.

Programmer A push the `DC_Load_Model` of V1.2.0 first.

Programmer B can't push the `DC_Load_Model` of V1.2.0 after programmer A push.

Solution:

1. Programmer B need to pull the latest common library again then modify and push.
2. Programmer B pull the common library directly. Common library will be merged automatically.

Programmer A: Modify



DC_Load_Model.py: 5938b875 - TortoiseGitMerge

File Edit
Save Reload Undo Redo Copy Paste Find Find Previous Goto Line Mark as resolved Previous difference Next difference Previous conflict Next conflict Previous inline difference Next inline difference Use left Use left text block Show Whitespace Compare whitespace Ignore whitespace changes Ignore all whitespace changes Inline diff Inline diff word-wise Regex Filter View Bars Wrap Lines Switch between single and double pane view Switch left and right view

DC_Load_Model.py: d6ba04eb

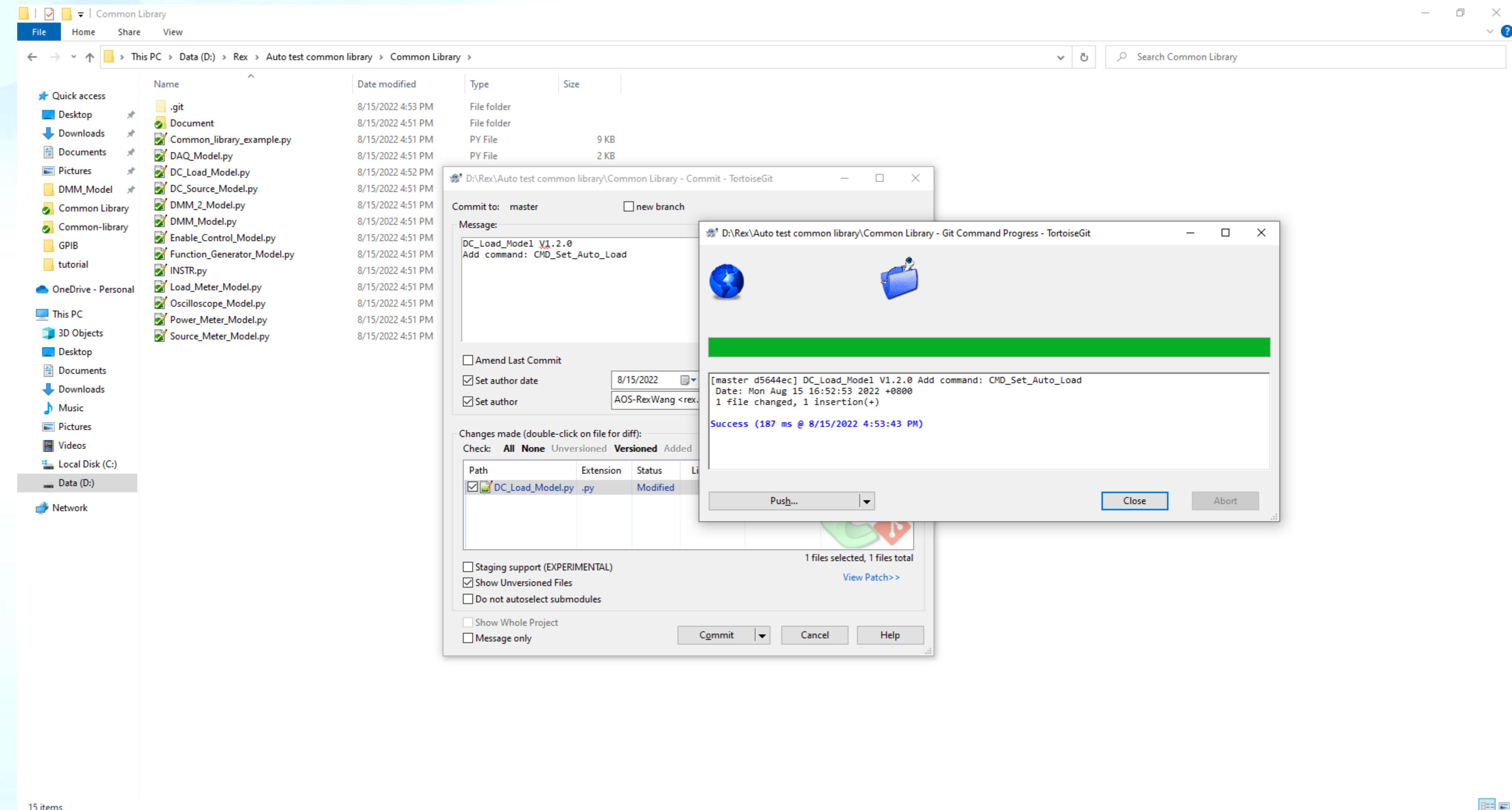
```
1 """  
2 -* @File.....:DC_Load_Model.py  
3 -* @Version...: V1.1.0  
4 -* @Date.....: July 01, 2022  
5 -* @Brief.....: Child class of DC_Load.  
6 -* @Author....: Rex Wang  
7 -* @Last editor: Rex Wang  
8 -* Copyright: (C) 2021 Alpha & Omega Semiconductor Ltd. All rights reserved.  
9 """  
10  
11 from Library.INSTR import DC_Load  
12  
13 class Chroma_6312A(DC_Load):  
14     ...  
15     CMD_Get_Load_State..... = "LOAD?"  
16     ...  
17     CMD_Set_Mode..... = "MODE %s"  
18     ...  
19     CMD_Set_Channel..... = "CHANNEL %d"  
20     ...  
21     CMD_Set_Dynamic_Current_Slew_Rate..... = "CURRENT:DYNAMIC:L%#.%3f"  
22     ...  
23     CMD_Set_Load_Short_Off..... = "LOAD:SHORT OFF"  
24     ...  
25     CMD_Set_Load_Short_On..... = "LOAD:SHORT ON"  
26     ...  
27     CMD_Set_Load_State_Off..... = "Load OFF"  
28     ...  
29     CMD_Set_Load_State_On..... = "Load ON"  
30     ...  
31     CMD_Set_Load_State_All_Off..... = "LOAD:ON"  
32     ...  
33     CMD_Set_Load_State_All_On..... = "LOAD:OFF"  
34     ...  
35     CMD_Set_Resistance..... = "RESistance:L1.%3f"  
36     ...  
37     CMD_Set_Static_Current..... = "CURrent:STATIC:L1.%3f"  
38     ...  
39     CMD_Set_Static_Current_Slew_Rate..... = "CURrent:STATIC:%s.%3f"  
40     ...  
41     CMD_Set_Static_Current_Period..... = "CURrent:STATIC:T%#.%3f"  
42     ...  
43     CMD_Set_Load_Short_Off..... = "LOAD:SHORT OFF"  
44     ...  
45     CMD_Set_Load_Short_On..... = "LOAD:SHORT ON"  
46     ...  
47     CMD_Set_Load_State_All_Off..... = "LOAD:ON"  
48     ...  
49     CMD_Set_Load_State_All_On..... = "LOAD:OFF"  
50     ...  
51     CMD_Set_Resistance..... = "RESistance:STATIC:L1.%3f"  
52     ...  
53     CMD_Set_Resistance_Slew_Rate..... = "RESistance:STATIC:%s.%3f"  
54     ...  
55     CMD_Set_Load_Short_On..... = "LOAD:SHORT ON"  
56     ...  
57     CMD_Set_Load_Short_On..... = "LOAD:SHORT ON"
```

DC_Load_Model.py: 5938b875

```
1 """  
2 -* @File.....:DC_Load_Model.py  
3 -* @Version...: V1.2.0  
4 -* @Date.....: July 01, 2022  
5 -* @Brief.....: Child class of DC_Load.  
6 -* @Author....: Rex Wang  
7 -* @Last editor: Rex Wang  
8 -* Copyright: (C) 2021 Alpha & Omega Semiconductor Ltd. All rights reserved.  
9 """  
10  
11 from Library.INSTR import DC_Load  
12  
13 class Chroma_6312A(DC_Load):  
14     ...  
15     CMD_Get_Load_State..... = "LOAD?"  
16     ...  
17     CMD_Set_Mode..... = "MODE %s"  
18     ...  
19     CMD_Set_Channel..... = "CHANNEL %d"  
20     ...  
21     CMD_Set_Dynamic_Current_Slew_Rate..... = "CURRENT:DYNAMIC:L%#.%3f"  
22     ...  
23     CMD_Set_Load_Short_Off..... = "LOAD:SHORT OFF"  
24     ...  
25     CMD_Set_Load_Short_On..... = "LOAD:SHORT ON"  
26     ...  
27     CMD_Set_Load_State_Off..... = "Load OFF"  
28     ...  
29     CMD_Set_Load_State_On..... = "Load ON"  
30     ...  
31     CMD_Set_Load_State_All_Off..... = "LOAD:ON"  
32     ...  
33     CMD_Set_Load_State_All_On..... = "LOAD:OFF"  
34     ...  
35     CMD_Set_Resistance..... = "RESistance:L1.%3f"  
36     ...  
37     CMD_Set_Static_Current..... = "CURrent:STATIC:L1.%3f"  
38     ...  
39     CMD_Set_Static_Current_Slew_Rate..... = "CURrent:STATIC:%s.%3f"  
40     ...  
41     CMD_Set_Static_Current_Period..... = "CURrent:STATIC:T%#.%3f"  
42     ...  
43     CMD_Set_Load_Short_Off..... = "LOAD:SHORT OFF"  
44     ...  
45     CMD_Set_Load_Short_On..... = "LOAD:SHORT ON"  
46     ...  
47     CMD_Set_Load_State_All_Off..... = "LOAD:ON"  
48     ...  
49     CMD_Set_Resistance..... = "RESistance:STATIC:L1.%3f"  
50     ...  
51     CMD_Set_Static_Current..... = "CURrent:STATIC:L1.%3f"  
52     ...  
53     CMD_Set_Static_Current_Slew_Rate..... = "CURrent:STATIC:%s.%3f"  
54     ...  
55     CMD_Set_Load_Short_On..... = "LOAD:SHORT ON"  
56     ...  
57     CMD_Set_Load_Short_On..... = "LOAD:SHORT ON"
```

Add command:
CMD_Set_Auto_Load

Programmer A: Commit



Programmer A: Push



The screenshot shows a Windows File Explorer window with the following path: This PC > Data (D:) > Rex > Auto test common library > Common Library. The folder contains the following files:

| Name | Date modified | Type | Size |
|-----------------------------|-------------------|-------------|--------|
| .git | 8/15/2022 4:58 PM | File folder | |
| Document | 8/15/2022 4:55 PM | File folder | |
| Common_library_example.py | 8/15/2022 4:55 PM | PY File | 9 KB |
| DAQ_Model.py | 8/15/2022 4:55 PM | PY File | 2 KB |
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| DMM_Model.py | 8/15/2022 4:55 PM | PY File | 1 KB |
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| Power_Meter_Model.py | 8/15/2022 4:55 PM | PY File | 2 KB |
| Source_Meter_Model.py | 8/15/2022 4:55 PM | PY File | 4 KB |

Below the file list, the status bar indicates "15 items".

The TortoiseGit Git Command Progress window shows the following output:

```
writing objects: 100% (3/3), 386 bytes | 386.00 KB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
branch 'master' set up to track 'origin/master'.
To https://github.com/AOS-RexLang/Common-Library
d6ba04e..5938b87 master -> master
Success (4469 ms @ 8/15/2022 4:58:40 PM)
```

Buttons at the bottom of the progress window include "Create pull request", "Close", and "Abort".

Programmer B: Modify



DC_Load_Model.py: 42e7cd5a - TortoiseGitMerge

File Edit
Save Reload Undo Redo Copy Paste Find Find Previous Goto Line Mark as resolved Previous difference Next difference Previous conflict Next conflict Previous inline difference Next inline difference Use left Use left text block Show Whitespace Compare whitespace Ignore whitespace changes Ignore all whitespace changes Inline diff Inline diff word-wise Regex Filter View Bars Wrap Lines Switch between single and double pane view Switch left and right view

DC_Load_Model.py: d6ba04eb

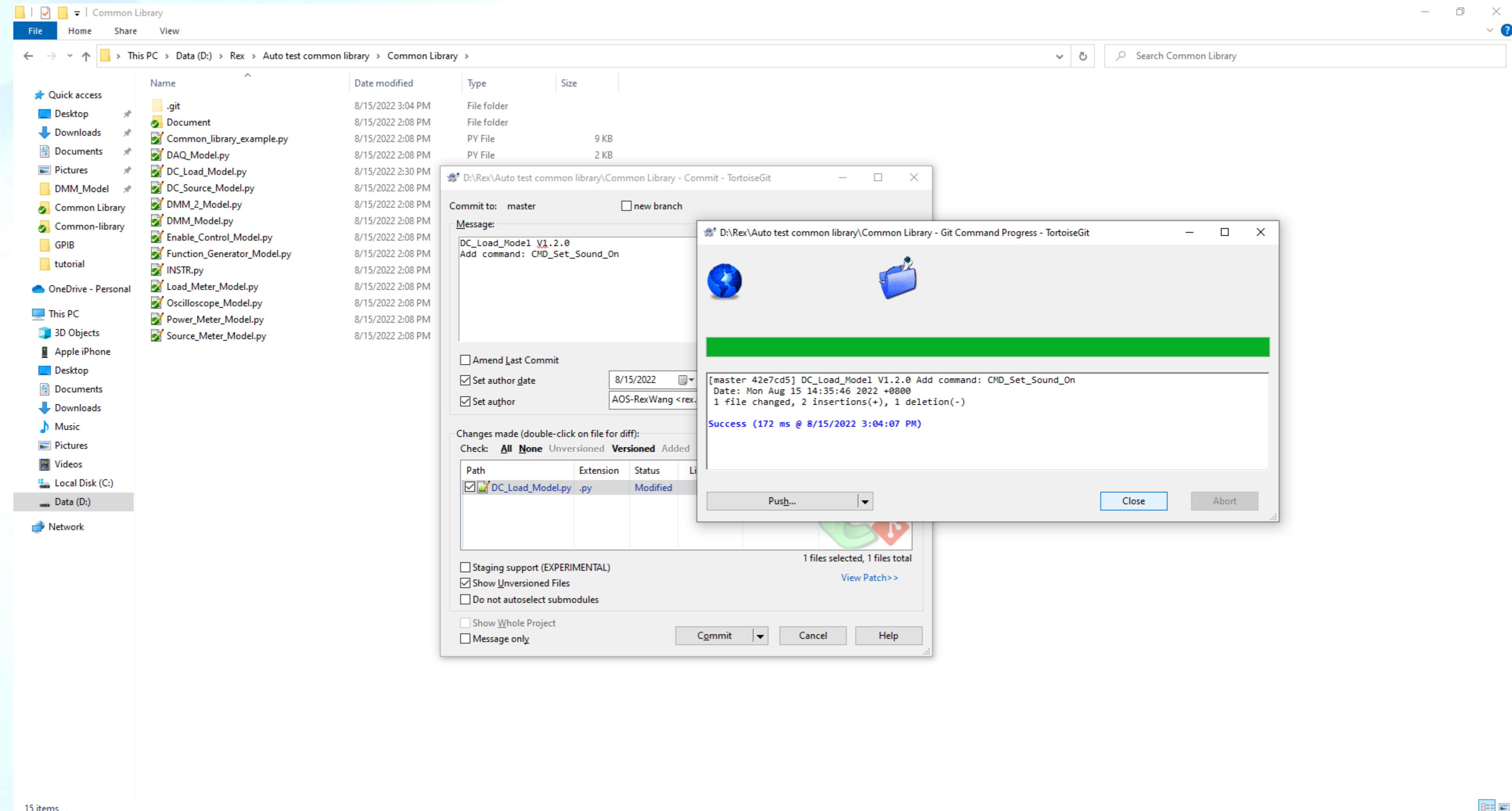
```
1 """  
2 #* @File.....:DC_Load_Model.py  
3 #* @Version...:V1.0.0  
4 #* @Date.....:July 01, 2022  
5 #* @Brief....:Child class of DC_Load.  
6 #* @Author...:Rex Wang  
7 #* @Last editor:Rex Wang  
8 #* Copyright (C) 2021 Alpha & Omega Semiconductor Ltd. All rights reserved.  
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11 from Library.INSTR import DC_Load  
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13 class Chroma_6312A(DC_Load):  
14     CMD_Get_Load_State = "LOAD?"  
15     CMD_Measure_Voltage = "MEASURE:VOLTage?"  
16     CMD_Measure_Current = "MEASURE:CURRENT?"  
17     CMD_Set_Mode = "MODE %s"  
18     CMD_Set_Channel = "CHANnel.%d"  
19     CMD_Set_Dynamic_Current = "CURRENT:DYNAMIC:L%#.%3f"  
20     CMD_Set_Dynamic_Current_Slew_Rate = "CURRENT:DYNAMIC:%s.%3f"  
21     CMD_Set_Dynamic_Current_Period = "CURRENT:DYNAMIC:T%#.%f"  
22     CMD_Set_Load_Short_Off = "LOAD:SHORT OFF"  
23     CMD_Set_Load_Short_On = "LOAD:SHORT ON"  
24     CMD_Set_Load_State_Off = "Load OFF"  
25     CMD_Set_Load_State_On = "LOAD ON"  
26     CMD_Set_Load_State_All_Off = ":ABORE"  
27     CMD_Set_Load_State_All_On = ":RUN"  
28     CMD_Set_Resistance = "RESistance:L1.%3f"  
29     CMD_Set_Resistance_Slew_Rate = "RESistance:%s.%3f"  
30     CMD_Set_Static_Current = "CURrent:STATIC:L1.%3f"  
31     CMD_Set_Static_Current_Slew_Rate = "CURrent:STATIC:%s.%3f"  
32  
33 class Chroma_63600_Series(DC_Load):  
34     CMD_Get_Load_State = "LOAD?"  
35     CMD_Measure_Voltage = "MEASURE:VOLTage?"  
36     CMD_Measure_Current = "MEASURE:CURRENT?"  
37     CMD_Set_Mode = "MODE %s"  
38     CMD_Set_Channel = "CHANNEL.%d"  
39     CMD_Set_Dynamic_Current = "CURRENT:DYNAMIC:L%#.%3f"  
40     CMD_Set_Dynamic_Current_Slew_Rate = "CURRENT:DYNAMIC:%s.%3f"  
41     CMD_Set_Dynamic_Current_Period = "CURRENT:DYNAMIC:T%#.%f"  
42     CMD_Set_Load_Short_Off = "LOAD:SHORT OFF"  
43     CMD_Set_Load_Short_On = "LOAD:SHORT ON"  
44     CMD_Set_Load_State_Off = "Load OFF"  
45     CMD_Set_Load_State_On = "LOAD ON"  
46     CMD_Set_Load_State_All_Off = ":ABORE"  
47     CMD_Set_Load_State_All_On = ":RUN"  
48     CMD_Set_Resistance = "RESistance:STATIC:L1.%3f"  
49     CMD_Set_Resistance_Slew_Rate = ""  
50     CMD_Set_Static_Current = "CURrent:STATIC:L1.%3f"  
51     CMD_Set_Static_Current_Slew_Rate = "CURrent:STATIC:%s.%3f"  
52  
53
```

DC_Load_Model.py: 42e7cd5a

```
1 """  
2 #* @File.....:DC_Load_Model.py  
3 #* @Version...: V1.0.0  
4 #* @Date.....: July 01, 2022  
5 #* @Brief....: Child class of DC_Load.  
6 #* @Author...: Rex Wang  
7 #* @Last editor: Rex Wang  
8 #* Copyright (C) 2021 Alpha & Omega Semiconductor Ltd. All rights reserved.  
9 """  
10  
11 from Library.INSTR import DC_Load  
12  
13 class Chroma_6312A(DC_Load):  
14     CMD_Get_Load_State = "LOAD?"  
15     CMD_Measure_Voltage = "MEASURE:VOLTage?"  
16     CMD_Measure_Current = "MEASURE:CURRENT?"  
17     CMD_Set_Mode = "MODE %s"  
18     CMD_Set_Channel = "CHANnel.%d"  
19     CMD_Set_Sound_On = "CONFIGure:SOUND:ON"  
20     CMD_Set_Dynamic_Current = "CURRENT:DYNAMIC:L%#.%3f"  
21     CMD_Set_Dynamic_Current_Slew_Rate = "CURRENT:DYNAMIC:%s.%3f"  
22     CMD_Set_Dynamic_Current_Period = "CURRENT:DYNAMIC:T%#.%f"  
23     CMD_Set_Load_Short_Off = "LOAD:SHORT OFF"  
24     CMD_Set_Load_Short_On = "LOAD:SHORT ON"  
25     CMD_Set_Load_State_Off = "Load OFF"  
26     CMD_Set_Load_State_On = "LOAD ON"  
27     CMD_Set_Load_State_All_Off = ":ABORT"  
28     CMD_Set_Load_State_All_On = ":RUN"  
29     CMD_Set_Resistance = "RESistance:L1.%3f"  
30     CMD_Set_Resistance_Slew_Rate = "RESistance:%s.%3f"  
31     CMD_Set_Static_Current = "CURrent:STATIC:L1.%3f"  
32     CMD_Set_Static_Current_Slew_Rate = "CURrent:STATIC:%s.%3f"  
33  
34 class Chroma_63600_Series(DC_Load):  
35     CMD_Get_Load_State = "LOAD?"  
36     CMD_Measure_Voltage = "MEASURE:VOLTage?"  
37     CMD_Measure_Current = "MEASURE:CURRENT?"  
38     CMD_Set_Mode = "MODE %s"  
39     CMD_Set_Channel = "CHANNEL.%d"  
40     CMD_Set_Dynamic_Current = "CURRENT:DYNAMIC:L%#.%3f"  
41     CMD_Set_Dynamic_Current_Slew_Rate = "CURRENT:DYNAMIC:%s.%3f"  
42     CMD_Set_Dynamic_Current_Period = "CURRENT:DYNAMIC:T%#.%f"  
43     CMD_Set_Load_Short_Off = "LOAD:SHORT OFF"  
44     CMD_Set_Load_Short_On = "LOAD:SHORT ON"  
45     CMD_Set_Load_State_Off = "Load OFF"  
46     CMD_Set_Load_State_On = "LOAD ON"  
47     CMD_Set_Load_State_All_Off = ":ABORT"  
48     CMD_Set_Load_State_All_On = ":RUN"  
49     CMD_Set_Resistance = "RESistance:STATIC:L1.%3f"  
50     CMD_Set_Resistance_Slew_Rate = ""  
51     CMD_Set_Static_Current = "CURrent:STATIC:L1.%3f"  
52     CMD_Set_Static_Current_Slew_Rate = "CURrent:STATIC:%s.%3f"  
53
```

Add command:
CMD_Set_Sound_On

Programmer B: Commit



Programmer B: Push Fail



Common Library - v1.2

File Home Share View

This PC > Data (D:) > Rex > Auto test common library > Common Library - v1.2

Search Common Library - v1.2

| Name | Date modified | Type | Size |
|-----------------------------|-------------------|-------------|--------|
| .git | 8/15/2022 5:00 PM | File folder | |
| Document | 8/15/2022 3:11 PM | File folder | |
| Common_library_example.py | 8/15/2022 2:08 PM | PY File | 9 KB |
| DAQ_Model.py | 8/15/2022 2:08 PM | PY File | 2 KB |
| DC_Load_Model.py | 8/15/2022 2:30 PM | PY File | 3 KB |
| DC_Source_Model.py | 8/15/2022 2:08 PM | PY File | 7 KB |
| DMM_2_Model.py | 8/15/2022 2:08 PM | PY File | 1 KB |
| DMM_Model.py | 8/15/2022 2:08 PM | PY File | 1 KB |
| Enable_Control_Model.py | 8/15/2022 2:08 PM | PY File | 5 KB |
| Function_Generator_Model.py | 8/15/2022 2:08 PM | PY File | 2 KB |
| INSTR.py | 8/15/2022 2:08 PM | PY File | 105 KB |
| Load_Meter_Model.py | 8/15/2022 2:08 PM | PY File | 3 KB |
| Oscilloscope_Model.py | 8/15/2022 2:08 PM | PY File | 44 KB |
| Power_Meter_Model.py | 8/15/2022 2:08 PM | PY File | 2 KB |
| Source_Meter_Model.py | 8/15/2022 2:08 PM | PY File | 4 KB |

15 items

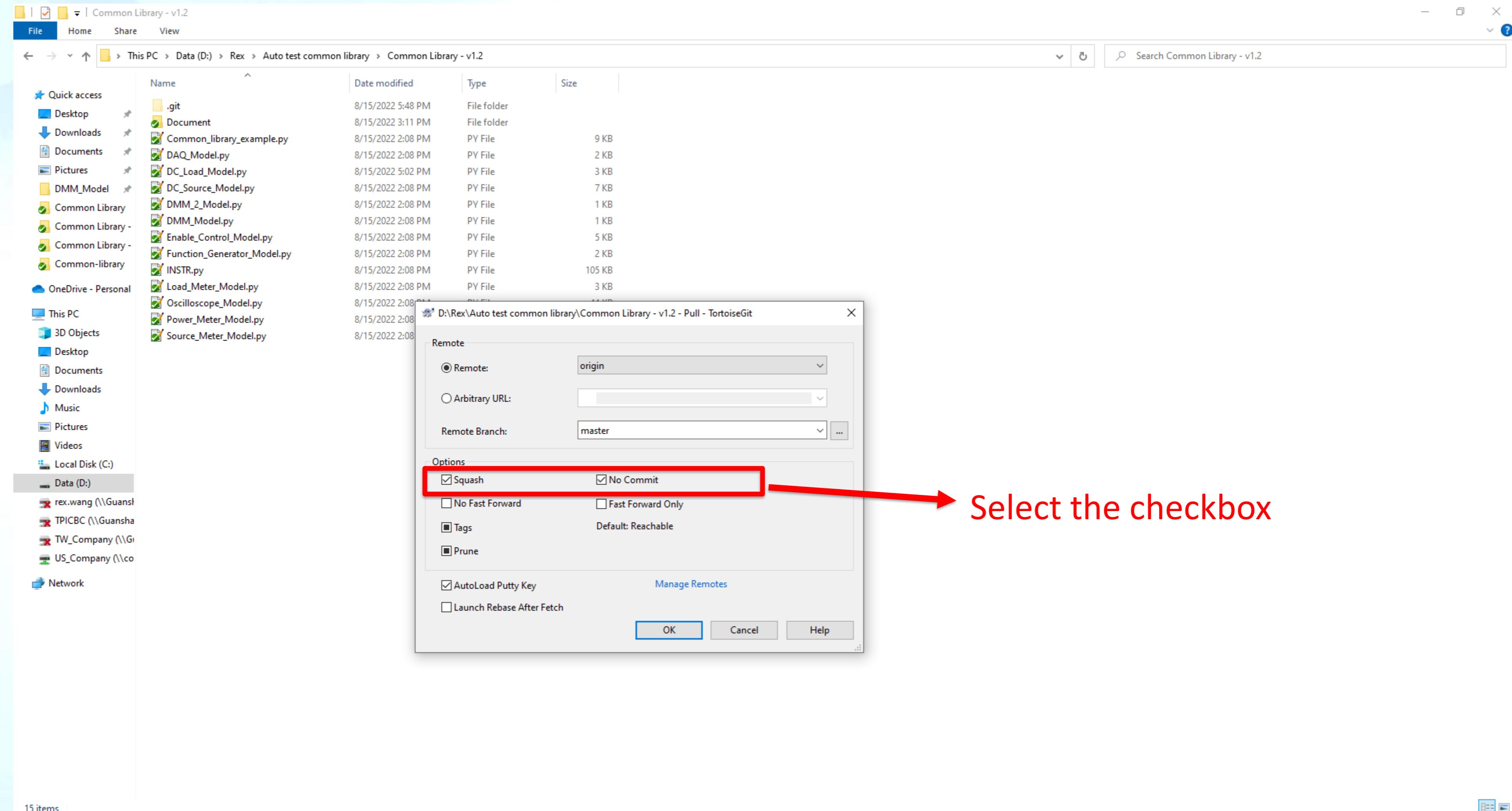
D:\Rex\Auto test common ...\\Common Library - v1.2 - Git Command Progress - TortoiseGit

git.exe push --set-upstream --progress "origin" master
To <https://github.com/AOS-RexWang/Common-Library>
! [rejected] master -> master (fetch first)
error: failed to push some refs to '<https://github.com/AOS-RexWang/Common-Library>'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

git did not exit cleanly (exit code 1) (2891 ms @ 8/15/2022 5:01:00 PM)

Pull... | Close Abort

Programmer B: Pull directly



Programmer B: Pull directly



Common Library - v1.2

File Home Share View

This PC > Data (D:) > Rex > Auto test common library > Common Library - v1.2

Search Common Library - v1.2

| Name | Date modified | Type | Size |
|-----------------------------|-------------------|-------------|--------|
| .git | 8/15/2022 5:02 PM | File folder | |
| Document | 8/15/2022 3:11 PM | File folder | |
| Common_library_example.py | 8/15/2022 2:08 PM | PY File | 9 KB |
| DAQ_Model.py | 8/15/2022 2:08 PM | PY File | 2 KB |
| DC_Load_Model.py | 8/15/2022 5:02 PM | PY File | 3 KB |
| DC_Source_Model.py | 8/15/2022 2:08 PM | PY File | 7 KB |
| DMM_2_Model.py | 8/15/2022 2:08 PM | PY File | 1 KB |
| DMM_Model.py | 8/15/2022 2:08 PM | PY File | 1 KB |
| Enable_Control_Model.py | 8/15/2022 2:08 PM | PY File | 5 KB |
| Function_Generator_Model.py | 8/15/2022 2:08 PM | PY File | 2 KB |
| INSTR.py | 8/15/2022 2:08 PM | PY File | 105 KB |
| Load_Meter_Model.py | 8/15/2022 2:08 PM | PY File | 3 KB |
| Oscilloscope_Model.py | 8/15/2022 2:08 PM | PY File | 44 KB |
| Power_Meter_Model.py | 8/15/2022 2:08 PM | PY File | 2 KB |
| Source_Meter_Model.py | 8/15/2022 2:08 PM | PY File | 4 KB |

D:\Rex\Auto test common ...\\Common Library - v1.2 - Git Command Progress - TortoiseGit

remote: Compressing objects

```
* branch          master      -> FETCH_HEAD
d6ba04e..5938b87  master      -> origin/master
Auto-merging DC_Load_Model.py
Merge made by the 'ort' strategy.
DC_Load_Model.py | 1 +
1 file changed, 1 insertion(+)

Success (1547 ms @ 8/15/2022 5:02:18 PM)
```

Pulled Diff | Close | Abort

Programmer B: Merge



DC_Load_Model.py: Working Tree - TortoiseGitMerge

File Edit
Save Reload Undo Redo Copy Paste Find Find Previous Goto Line Mark as resolved Previous difference Next difference Previous conflict Next conflict Previous inline difference Next inline difference Use left block Use left text block Show Whitespace Compare whitespace Ignore whitespace changes Ignore all whitespace changes Inline diff Inline diff word-wise Regex Filter Ignore Comments View Bars Wrap Lines Switch between single and double pane view Switch left and right view

DC_Load_Model.py: d6ba04eb

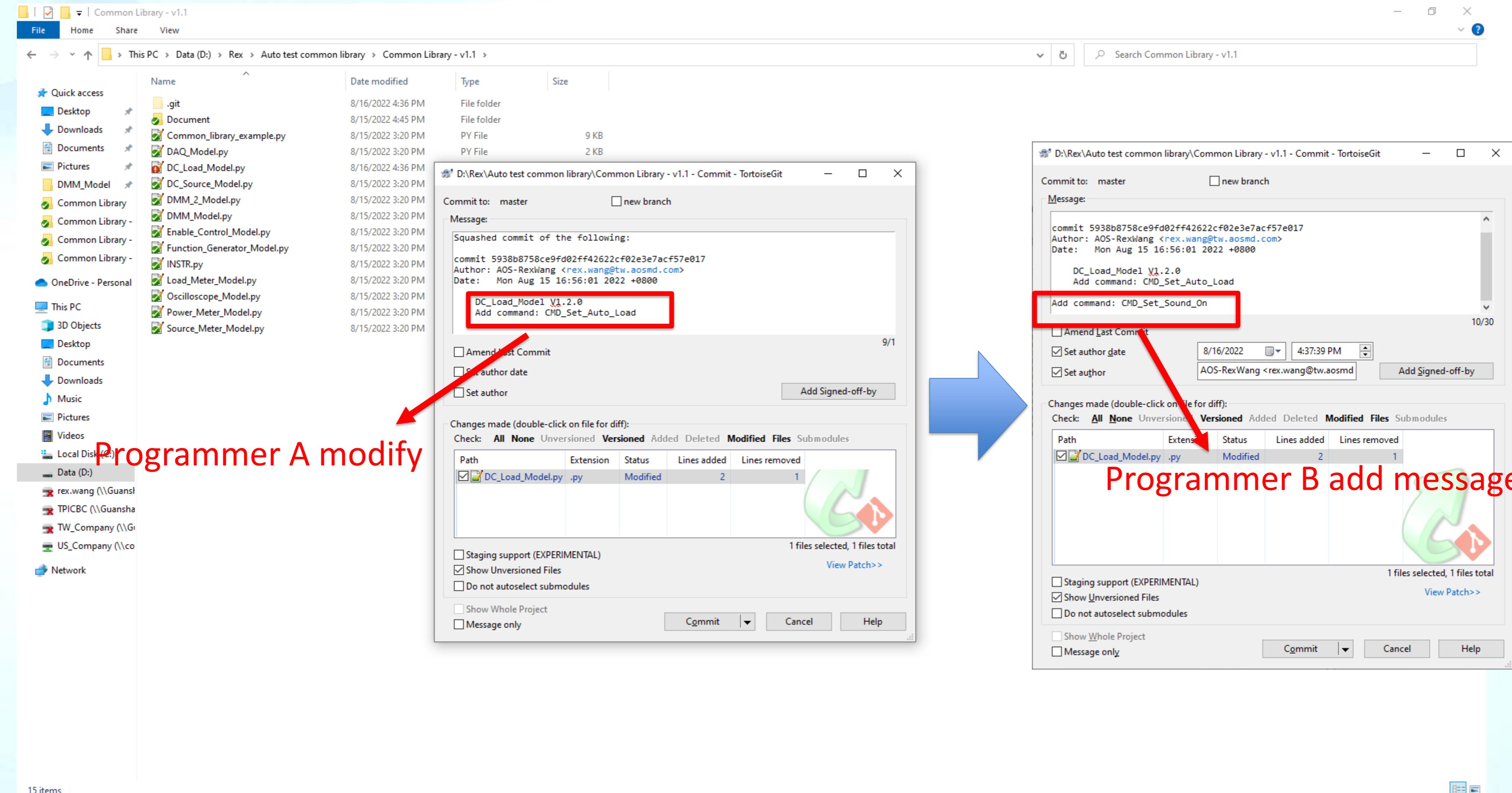
```
1 """  
2 -* @File.....:DC_Load_Model.py  
3 -* @Version...: V1.0.0  
4 -* @Date.....: July 01, 2022  
5 -* @Brief....: Child class of DC_Load.  
6 -* @Author...: Rex Wang  
7 -* @Last editor: Rex Wang  
8 -* Copyright: (C) 2021 Alpha & Omega Semiconductor Ltd. All rights reserved.  
9 """  
10  
11 from Library.INSTR import DC_Load  
12  
13 class Chroma_6312A(DC_Load):  
14     CMD_Get_Load_State..... = "LOAD?"  
15     CMD_Measure_Voltage..... = "MEASURE:VOLTage?"  
16     CMD_Measure_Current..... = "MEASURE:CURRENT?"  
17     CMD_Set_Mode..... = "MODE %s"  
18     CMD_Set_Channel..... = "CHANNEL %d"  
19     CMD_Set_Dynamic_Current..... = "CURRENT:DYNAMIC:L%3f"  
20     CMD_Set_Dynamic_Current_Slew_Rate..... = "CURRENT:DYNAMIC:%s.%3f"  
21     CMD_Set_Dynamic_Current_Period..... = "CURRENT:DYNAMIC:T%3f"  
22     CMD_Set_Load_Short_Off..... = "LOAD:SHORT OFF"  
23     CMD_Set_Load_Short_On..... = "LOAD:SHORT ON"  
24     CMD_Set_Load_State_Off..... = "Load OFF"  
25     CMD_Set_Load_State_On..... = "LOAD ON"  
26     CMD_Set_Load_State_All_Off..... = "ABORT"  
27     CMD_Set_Load_State_All_On..... = "RUN"  
28     CMD_Set_Resistance..... = "RESistance:L1.%3f"  
29     CMD_Set_Resistance_Slew_Rate..... = "RESistance:%s.%3f"  
30     CMD_Set_Static_Current..... = "CURRENT:STATIC:L1.%3f"  
31     CMD_Set_Static_Current_Slew_Rate..... = "CURRENT:STATIC:%s.%3f"  
32  
33 class Chroma_63600_Series(DC_Load):  
34     CMD_Get_Load_State..... = "LOAD?"  
35     CMD_Measure_Voltage..... = "MEASURE:VOLTage?"  
36     CMD_Measure_Current..... = "MEASURE:CURRENT?"  
37     CMD_Set_Mode..... = "MODE %s"  
38     CMD_Set_Channel..... = "CHANNEL %d"  
39     CMD_Set_Dynamic_Current..... = "CURRENT:DYNAMIC:L%3f"  
40     CMD_Set_Dynamic_Current_Slew_Rate..... = "CURRENT:DYNAMIC:%s.%3f"  
41     CMD_Set_Dynamic_Current_Period..... = "CURRENT:DYNAMIC:T%3f"  
42     CMD_Set_Load_Short_Off..... = "LOAD:SHORT OFF"  
43     CMD_Set_Load_Short_On..... = "LOAD:SHORT ON"  
44     CMD_Set_Load_State_Off..... = "Load OFF"  
45     CMD_Set_Load_State_On..... = "LOAD ON"  
46     CMD_Set_Load_State_All_Off..... = "ABORT"  
47     CMD_Set_Load_State_All_On..... = "RUN"  
48     CMD_Set_Resistance..... = "RESistance:STATIC:L1.%3f"  
49     CMD_Set_Resistance_Slew_Rate..... = ""  
50     CMD_Set_Static_Current..... = "CURRENT:STATIC:L1.%3f"  
51     CMD_Set_Static_Current_Slew_Rate..... = "CURRENT:STATIC:%s.%3f"
```

DC_Load_Model.py: Working Tree

```
1 """  
2 -* @File.....:DC_Load_Model.py  
3 -* @Version...: V1.0.0  
4 -* @Date.....: July 01, 2022  
5 -* @Brief....: Child class of DC_Load.  
6 -* @Author...: Rex Wang  
7 -* @Last editor: Rex Wang  
8 -* Copyright: (C) 2021 Alpha & Omega Semiconductor Ltd. All rights reserved.  
9 """  
10  
11 from Library.INSTR import DC_Load  
12  
13 class Chroma_6312A(DC_Load):  
14     CMD_Get_Load_State..... = "LOAD?"  
15     CMD_Measure_Voltage..... = "MEASURE:VOLTage?"  
16     CMD_Measure_Current..... = "MEASURE:CURRENT?"  
17     CMD_Set_Mode..... = "MODE %s"  
18     CMD_Set_Auto_Load..... = "CONFIGURE:AUTO:LOAD ON"  
19     CMD_Set_Channel..... = "CHANNEL %d"  
20     CMD_Set_Sound_On..... = "CONFIGURE:SOUND ON"  
21     CMD_Set_Dynamic_Current..... = "CURRENT:DYNAMIC:L%3f"  
22     CMD_Set_Dynamic_Current_Slew_Rate..... = "CURRENT:DYNAMIC:%s.%3f"  
23     CMD_Set_Dynamic_Current_Period..... = "CURRENT:DYNAMIC:T%3f"  
24     CMD_Set_Load_Short_Off..... = "LOAD:SHORT OFF"  
25     CMD_Set_Load_Short_On..... = "LOAD:SHORT ON"  
26     CMD_Set_Load_State_Off..... = "Load OFF"  
27     CMD_Set_Load_State_On..... = "LOAD ON"  
28     CMD_Set_Load_State_All_Off..... = "ABORT"  
29     CMD_Set_Load_State_All_On..... = "RUN"  
30     CMD_Set_Resistance..... = "RESistance:L1.%3f"  
31     CMD_Set_Resistance_Slew_Rate..... = "RESistance:%s.%3f"  
32     CMD_Set_Static_Current..... = "CURRENT:STATIC:L1.%3f"  
33     CMD_Set_Static_Current_Slew_Rate..... = "CURRENT:STATIC:%s.%3f"  
34  
35 class Chroma_63600_Series(DC_Load):  
36     CMD_Get_Load_State..... = "LOAD?"  
37     CMD_Measure_Voltage..... = "MEASURE:VOLTage?"  
38     CMD_Measure_Current..... = "MEASURE:CURRENT?"  
39     CMD_Set_Mode..... = "MODE %s"  
40     CMD_Set_Channel..... = "CHANNEL %d"  
41     CMD_Set_Dynamic_Current..... = "CURRENT:DYNAMIC:L%3f"  
42     CMD_Set_Dynamic_Current_Slew_Rate..... = "CURRENT:DYNAMIC:%s.%3f"  
43     CMD_Set_Dynamic_Current_Period..... = "CURRENT:DYNAMIC:T%3f"  
44     CMD_Set_Load_Short_Off..... = "LOAD:SHORT OFF"  
45     CMD_Set_Load_Short_On..... = "LOAD:SHORT ON"  
46     CMD_Set_Load_State_Off..... = "Load OFF"  
47     CMD_Set_Load_State_On..... = "LOAD ON"  
48     CMD_Set_Load_State_All_Off..... = "ABORT"  
49     CMD_Set_Load_State_All_On..... = "RUN"  
50     CMD_Set_Resistance..... = "RESistance:STATIC:L1.%3f"  
51     CMD_Set_Resistance_Slew_Rate..... = ""  
52     CMD_Set_Static_Current..... = "CURRENT:STATIC:L1.%3f"  
53     CMD_Set_Static_Current_Slew_Rate..... = "CURRENT:STATIC:%s.%3f"
```

Column: 21 | Left View: ASCII CRLF Tab 4 - 1 | Right View: ASCII CRLF Tab 4 + 3

Programmer B: Commit



Programmer B: Commit



Screenshot of a Windows File Explorer window showing the directory `D:\Rex\Auto test common library\Common Library - v1.1`. The folder contains several Python files (e.g., `Common_library_example.py`, `DAQ_Model.py`, `DC_Load_Model.py`, etc.) and a `.git` folder.

A TortoiseGit commit dialog is open over the file explorer. The commit message is:

```
commit 5938b8758ce9fd02ff42622cf02e3e7acf57
Author: AOS-RexWang <rex.wang@tw-aosmd.com>
Date: Mon Aug 15 16:56:01 2022 +0800

    DC_Load_Model.py V1.2.0
    Add command: CMD_Set_Auto_Load

Add command: CMD_Set_Sound_On
```

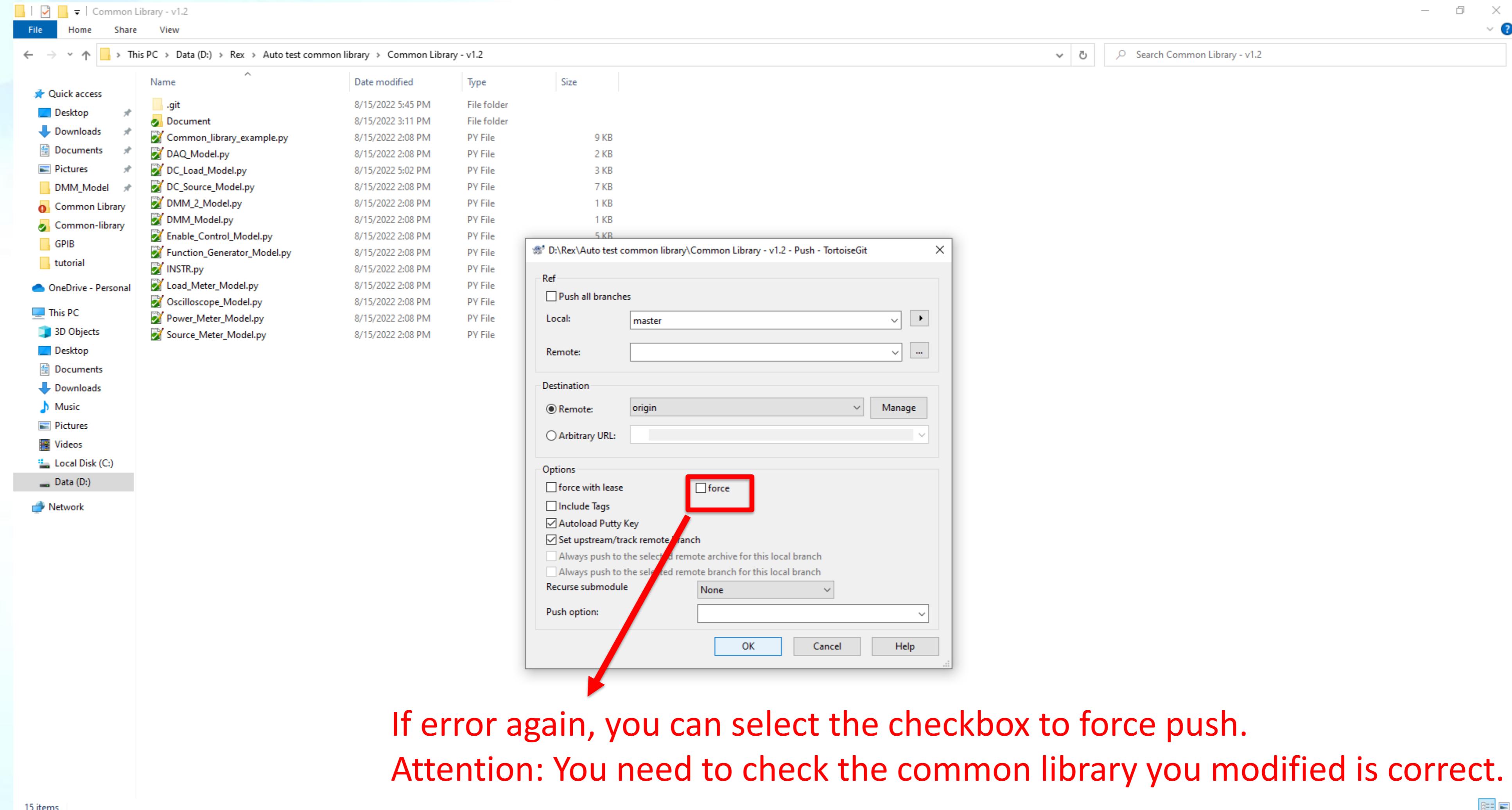
The commit progress bar shows a green bar indicating success. The log pane shows:

```
[master 58b4dcd] Squashed commit of the following:
Date: Tue Aug 16 16:37:39 2022 +0800
1 file changed, 2 insertions(+), 1 deletion(-)

Success (141 ms @ 8/16/2022 4:42:53 PM)
```

The commit dialog includes options like `Push...`, `Close`, and `Abort`.

Programmer B: Push



Programmer B: Push



Common Library - v1.2

| Name | Date modified | Type | Size |
|-----------------------------|-------------------|-------------|--------|
| .git | 8/15/2022 5:47 PM | File folder | |
| Document | 8/15/2022 3:11 PM | File folder | |
| Common_library_example.py | 8/15/2022 2:08 PM | PY File | 9 KB |
| DAQ_Model.py | 8/15/2022 2:08 PM | PY File | 2 KB |
| DC_Load_Model.py | 8/15/2022 5:02 PM | PY File | 3 KB |
| DC_Source_Model.py | 8/15/2022 2:08 PM | PY File | 7 KB |
| DMM_2_Model.py | 8/15/2022 2:08 PM | PY File | 1 KB |
| DMM_Model.py | 8/15/2022 2:08 PM | PY File | 1 KB |
| Enable_Control_Model.py | 8/15/2022 2:08 PM | PY File | 5 KB |
| Function_Generator_Model.py | 8/15/2022 2:08 PM | PY File | 2 KB |
| INSTR.py | 8/15/2022 2:08 PM | PY File | 105 KB |
| Load_Meter_Model.py | 8/15/2022 2:08 PM | PY File | 3 KB |
| Oscilloscope_Model.py | 8/15/2022 2:08 PM | PY File | 44 KB |
| Power_Meter_Model.py | 8/15/2022 2:08 PM | PY File | 2 KB |
| Source_Meter_Model.py | 8/15/2022 2:08 PM | PY File | 4 KB |

15 items

D:\Rex\Auto test common ...\\Common Library - v1.2 - Git Command Progress - TortoiseGit

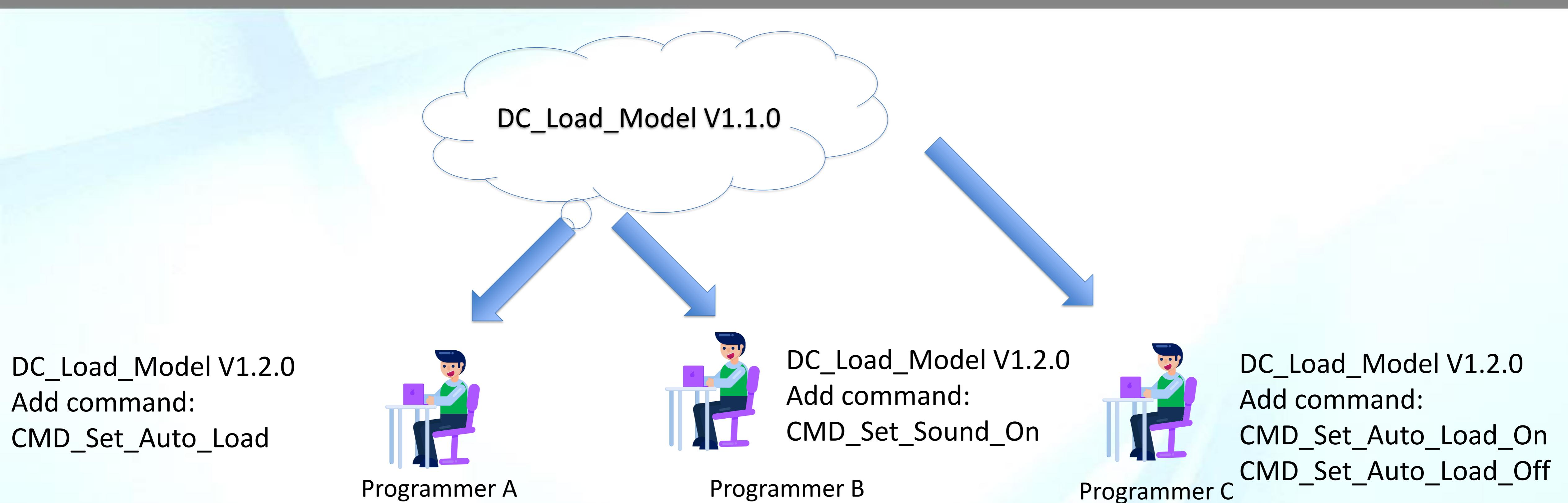
remote: Resolving deltas

```
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 683 bytes | 683.00 KiB/s, done.
Total 6 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), completed with 2 local objects.
branch 'master' set up to track 'origin/master'.
To https://github.com/AOS-RexXiang/Common-Library
5938b87..ebc85e9 master -> master

Success (4531 ms @ 8/15/2022 5:47:55 PM)
```

Create pull request | Close | Abort

Two programmers modify at the same code of the row



Programmer A, Band C pull the DC_Load_Model V1.1.0 at the same time.

Programmer A push the DC_Load_Model of V1.2.0 first.

Programmer B push the DC_Load_Model of V1.2.0 after merge the common library which programmer A code.

Programmer C push the DC_Load_Model of V1.2.0 after programmer B push.

Solution:

1. Programmer C need to pull the latest common library again then modify and push.
2. Programmer C pull the common library directly. Common library need to be merged manually.

Programmer C: Modify



The screenshot shows a dual-pane code editor interface for comparing two versions of a Python file, `DC_Load_Model.py`. The left pane displays the file at revision `d6ba04eb`, and the right pane displays it at revision `35ff9a12`. The interface includes a toolbar with standard file operations like Save, Undo, and Find, along with specific merge tools for navigating differences and managing whitespace.

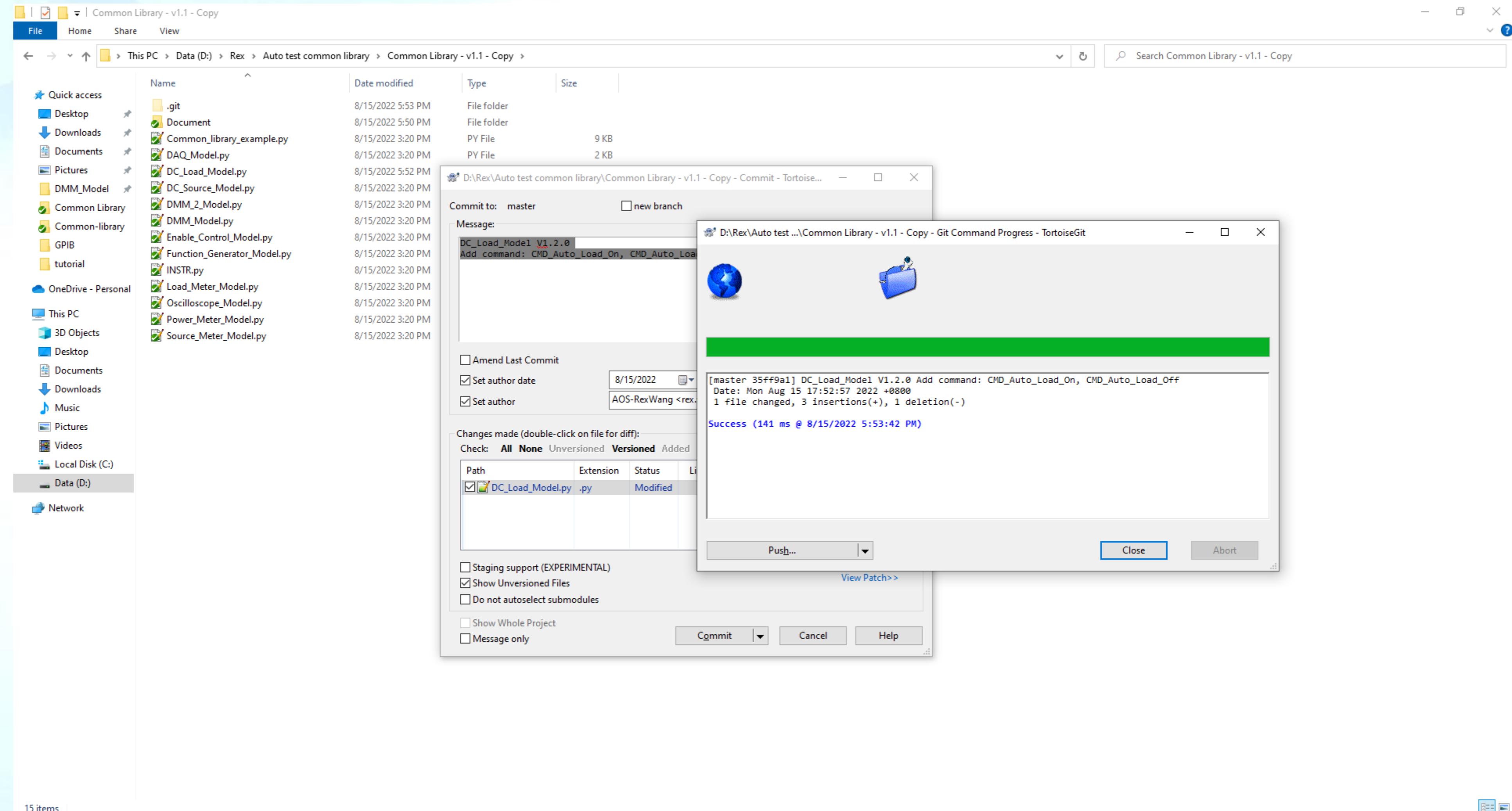
The code itself is a class definition for `DC_Load_Model` with various methods for load control and measurement. The main difference highlighted in the right pane is the addition of two new methods:

```
+18     CMD_Set_Auto_Load_On      = "CONFIGURE:AUTO:LOAD ON"  
+19     CMD_Set_Auto_Load_Off     = "CONFIGURE:AUTO:LOAD OFF"
```

These additions are visually distinguished by a yellow background highlight in the right pane.

```
1 """  
2 -* @File.....:DC_Load_Model.py  
3 -* @Version...:V1.1.0  
4 -* @Date.....:July-01, 2022  
5 -* @Brief....:Child-class-of DC_Load.  
6 -* @Author....:Rex-Wang  
7 -* @Last-editor:Rex-Wang  
8 -* Copyright-(C)-2021-Alpha-&-Omega-Semiconductor-Ltd. All rights reserved.  
9 """  
10  
11 from Library.INSTR import DC_Load  
12  
13 class Chroma_6312A(DC_Load):  
14     CMD_Get_Load_State..... = "LOAD?"  
15     CMD_Measure_Voltage..... = "MEASURE:VOLTage?"  
16     CMD_Measure_Current..... = "MEASURE:CURREnt?"  
17     CMD_Set_Mode..... = "MODE %s"  
18     CMD_Set_Auto_Load_On      = "CONFIGURE:AUTO:LOAD ON"  
19     CMD_Set_Auto_Load_Off     = "CONFIGURE:AUTO:LOAD OFF"  
20     CMD_Set_Channel..... = "CHANNEL %d"  
21     CMD_Set_Dynamic_Current..... = "CURRENT:DYNAMIC:L% d.%3f"  
22     CMD_Set_Dynamic_Current_Slew_Rate..... = "CURRENT:DYNAMIC:%s.%3f"  
23     CMD_Set_Dynamic_Current_Period..... = "CURRENT:DYNAMIC:T% d.%f"  
24     CMD_Set_Load_Short_Off..... = "LOAD:SHORT-OFF"  
25     CMD_Set_Load_Short_On..... = "LOAD:SHORT-ON"  
26     CMD_Set_Load_State_On..... = "LOAD-OFF"  
27     CMD_Set_Load_State_Off..... = "LOAD-ON"  
28     CMD_Set_Load_State_All_Off..... = "ABORT"  
29     CMD_Set_Load_State_All_On..... = "RUN"  
30     CMD_Set_Resistance..... = "RESistance:L1.%3f"  
31     CMD_Set_Resistance_Slew_Rate..... = "RESistance:%s.%3f"  
32     CMD_Set_Static_Current..... = "CURRENT:STATIC:L1.%3f"  
33     CMD_Set_Static_Current_Slew_Rate..... = "CURRENT:STATIC:%s.%3f"  
34  
35 class Chroma_63600_Series(DC_Load):  
36     CMD_Get_Load_State..... = "LOAD?"  
37     CMD_Measure_Voltage..... = "MEASURE:VOLTage?"  
38     CMD_Measure_Current..... = "MEASURE:CURREnt?"  
39     CMD_Set_Mode..... = "MODE %s"  
40     CMD_Set_Channel..... = "CHANNEL %d"  
41     CMD_Set_Dynamic_Current..... = "CURRENT:DYNAMIC:L% d.%3f"  
42     CMD_Set_Dynamic_Current_Slew_Rate..... = "CURRENT:DYNAMIC:%s.%3f"  
43     CMD_Set_Dynamic_Current_Period..... = "CURRENT:DYNAMIC:T% d.%f"  
44     CMD_Set_Load_Short_Off..... = "LOAD:SHORT-OFF"  
45     CMD_Set_Load_Short_On..... = "LOAD:SHORT-ON"  
46     CMD_Set_Load_State_Off..... = "Load-OFF"  
47     CMD_Set_Load_State_On..... = "Load-ON"  
48     CMD_Set_Load_State_All_Off..... = "ABORT"  
49     CMD_Set_Load_State_All_On..... = "RUN"  
50     CMD_Set_Resistance..... = "RESistance:STATIC:L1.%3f"  
51     CMD_Set_Resistance_Slew_Rate..... = ""  
52     CMD_Set_Static_Current..... = "CURRENT:STATIC:L1.%3f"  
53     CMD_Set_Static_Current_Slew_Rate..... = "CURRENT:STATIC:%s.%3f"
```

Programmer C: Commit



Programmer C: Push fail



Common Library - v1.1 - Copy

File Home Share View

This PC > Data (D:) > Rex > Auto test common library > Common Library - v1.1 - Copy

Search Common Library - v1.1 - Copy

| Name | Date modified | Type | Size |
|-----------------------------|-------------------|-------------|--------|
| .git | 8/15/2022 5:54 PM | File folder | |
| Document | 8/15/2022 5:50 PM | File folder | |
| Common_library_example.py | 8/15/2022 3:20 PM | PY File | 9 KB |
| DAQ_Model.py | 8/15/2022 3:20 PM | PY File | 2 KB |
| DC_Load_Model.py | 8/15/2022 5:52 PM | PY File | 3 KB |
| DC_Source_Model.py | 8/15/2022 3:20 PM | PY File | 7 KB |
| DMM_2_Model.py | 8/15/2022 3:20 PM | PY File | 1 KB |
| DMM_Model.py | 8/15/2022 3:20 PM | PY File | 1 KB |
| Enable_Control_Model.py | 8/15/2022 3:20 PM | PY File | 5 KB |
| Function_Generator_Model.py | 8/15/2022 3:20 PM | PY File | 2 KB |
| INSTR.py | 8/15/2022 3:20 PM | PY File | 105 KB |
| Load_Meter_Model.py | 8/15/2022 3:20 PM | PY File | 3 KB |
| Oscilloscope_Model.py | 8/15/2022 3:20 PM | PY File | 44 KB |
| Power_Meter_Model.py | 8/15/2022 3:20 PM | PY File | 2 KB |
| Source_Meter_Model.py | 8/15/2022 3:20 PM | PY File | 4 KB |

D:\Rex\Auto test ...\\Common Library - v1.1 - Copy - Git Command Progress - TortoiseGit

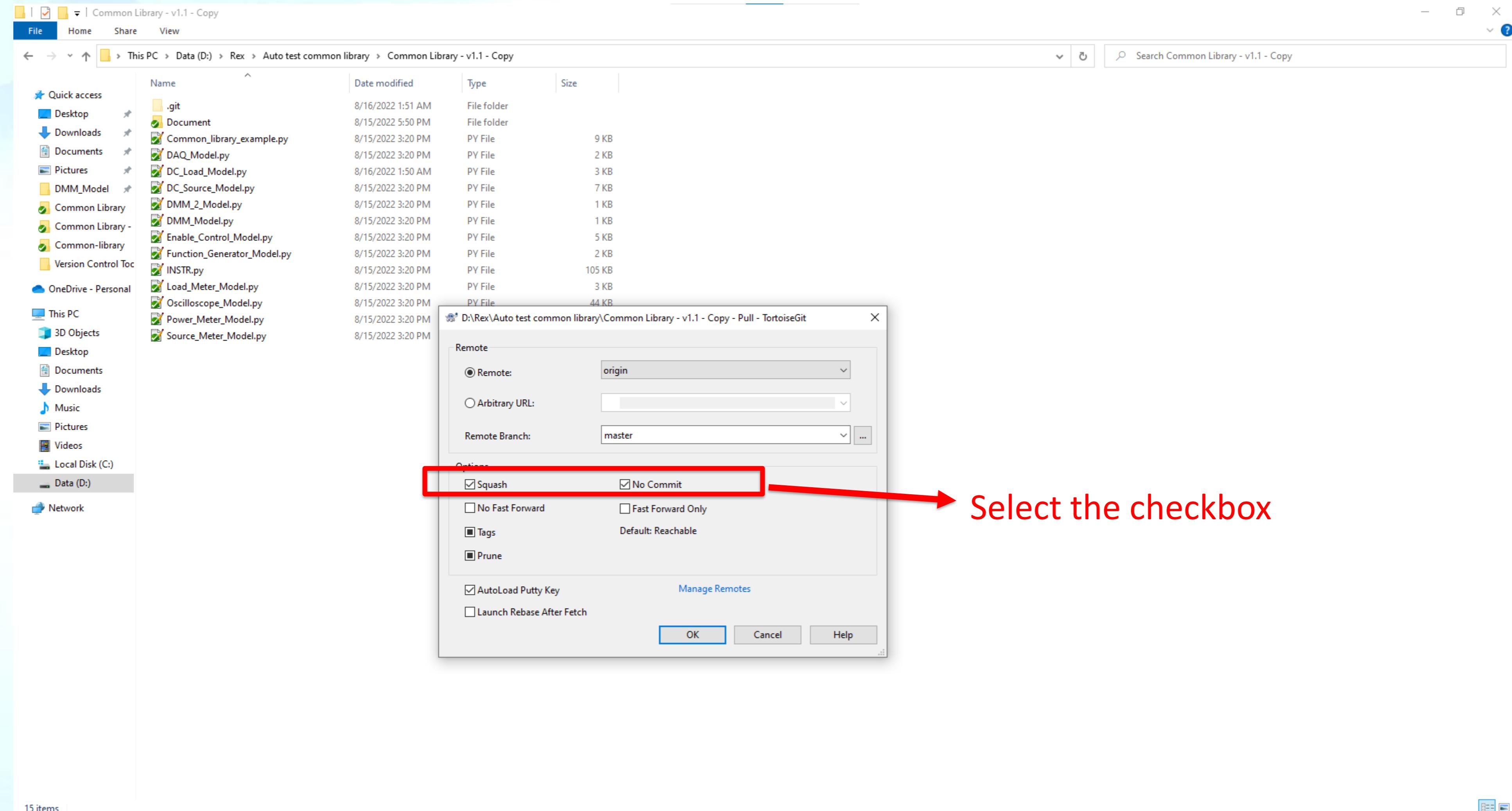
git.exe push --set-upstream --progress "origin" master
To <https://github.com/AOS-RexWang/Common-Library>
! [rejected] master -> master (fetch first)
error: failed to push some refs to '<https://github.com/AOS-RexWang/Common-Library>'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

git did not exit cleanly (exit code 1) (2922 ms @ 8/15/2022 5:55:11 PM)

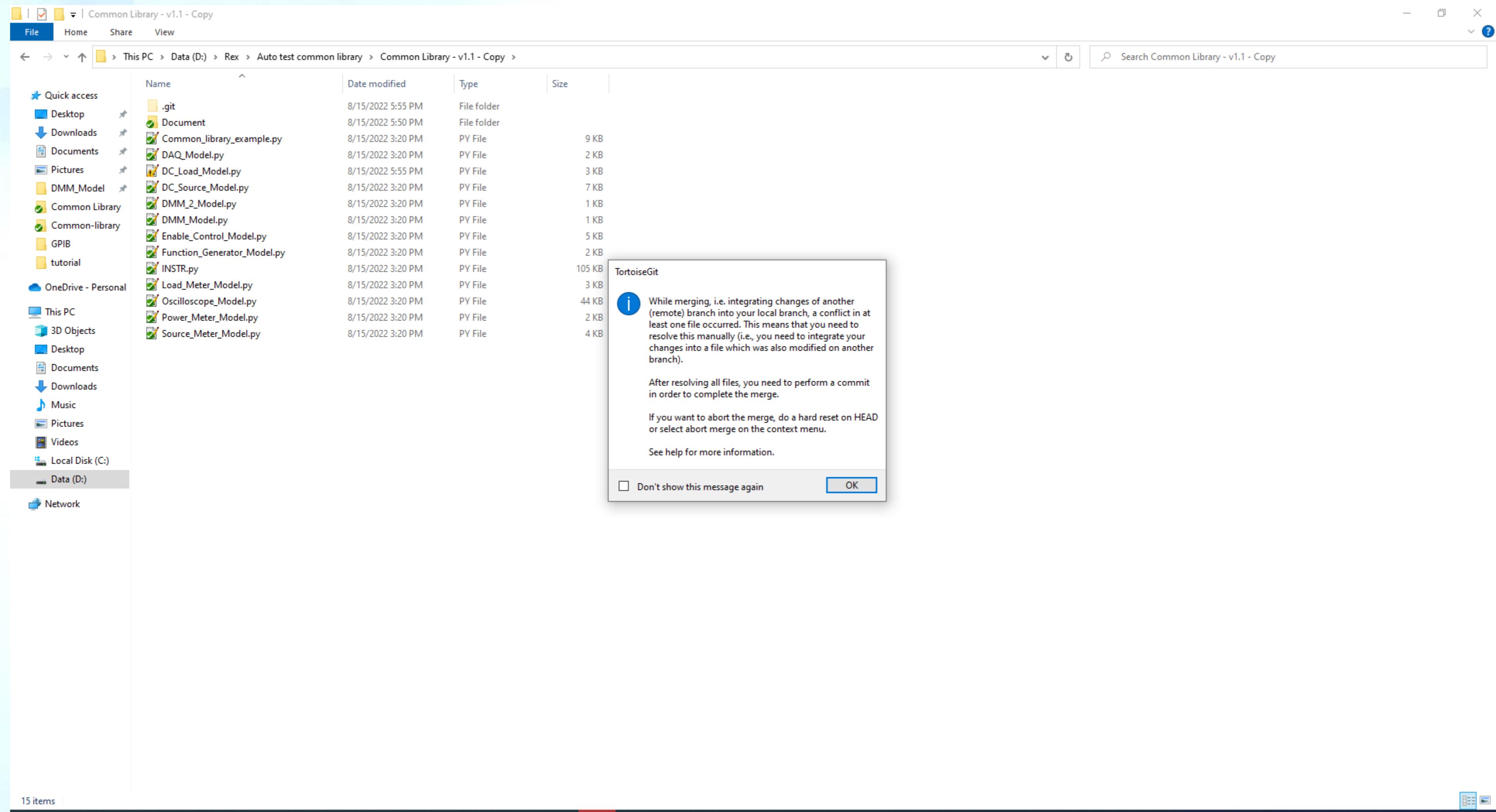
Pull... | Close Abort

15 items

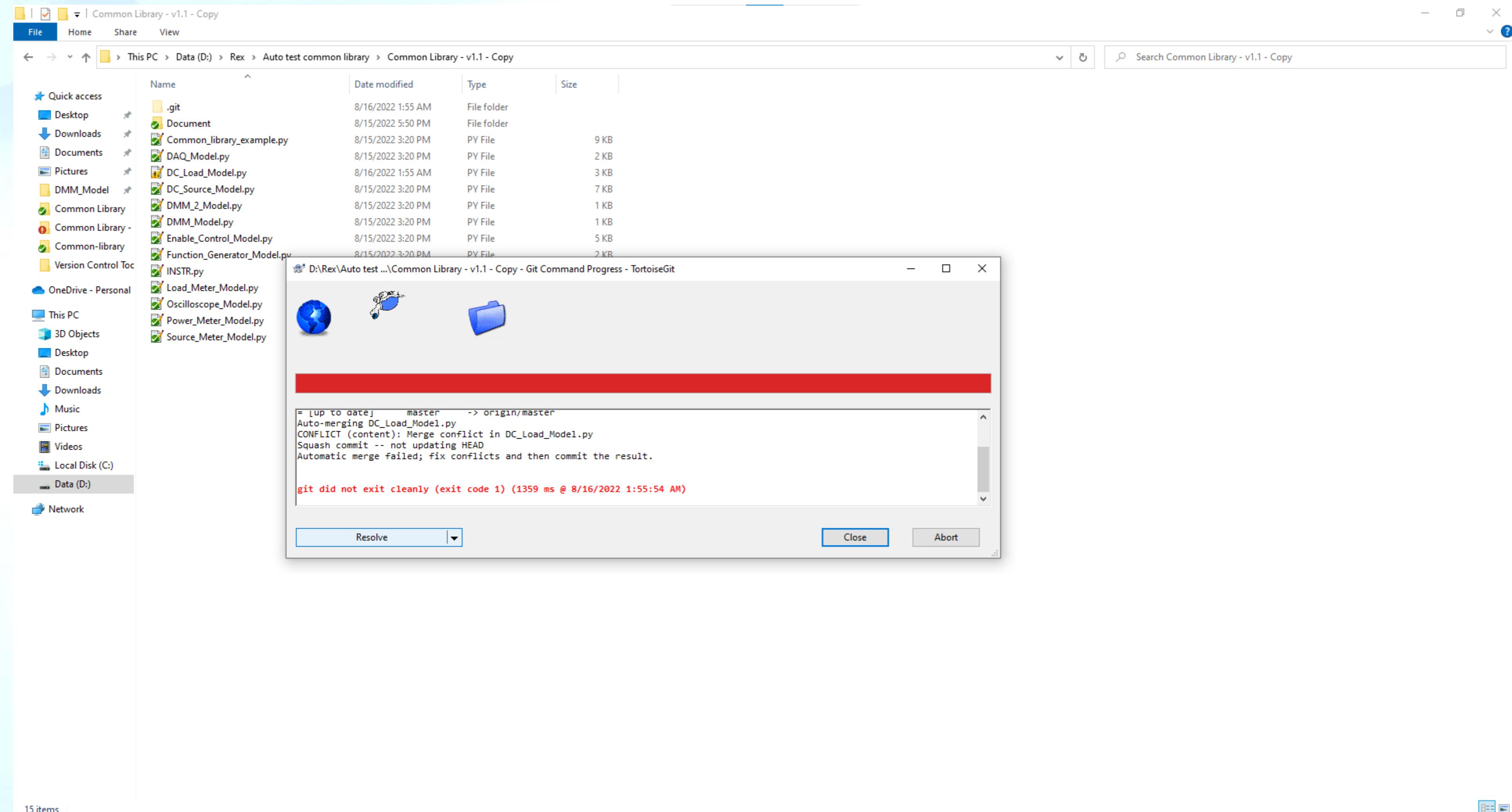
Programmer C: Pull directly



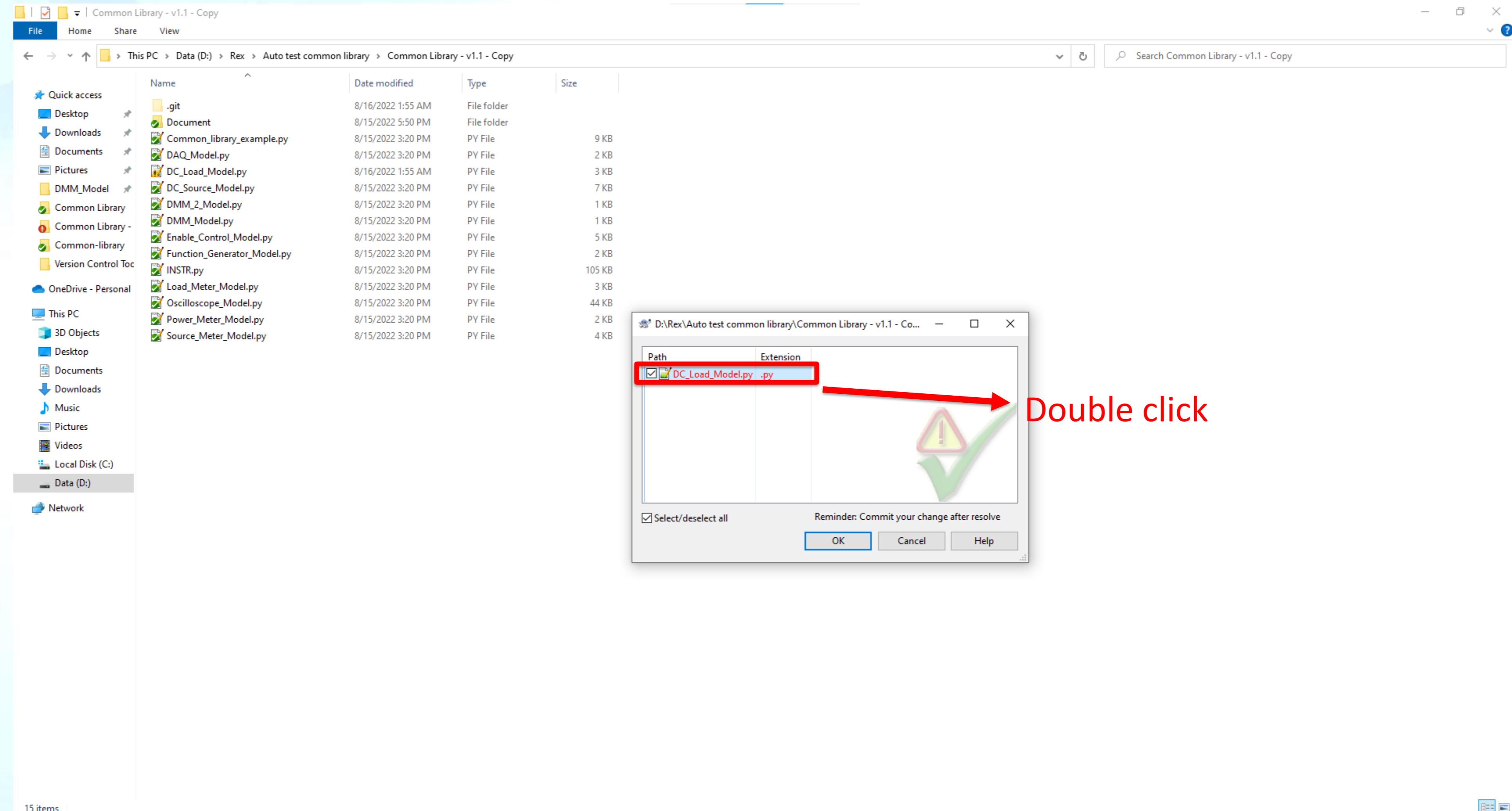
Programmer C: Pull directly



Programmer C: Resolve



Programmer C: Resolve



Programmer C: Merge manually



TortoiseGitMerge - HEAD

File Edit

Save Reload Undo Redo Copy Paste Find Find Previous Goto Line Mark as resolved Previous difference Next difference Previous conflict Next conflict Previous inline difference Next inline difference Use left Use left text block Show Whitespace Compare whitespace Ignore whitespace changes Ignore all whitespace changes Inline diff Inline diff word-wise Regex Filter Ignore Comments View Bars Wrap Lines Switch between single and double pane view Switch left and right view Collapse

changes to-be-integrated

Programmer B

```
6 .*.@Author.....:Rex.Wang
7 .*.@Last.editor.:Rex.Wang
8 .*.Copyright.(C).2021.Alpha-&Omega.Semiconductor.Ltd..All.rights.reserved.
9 """
10
11 from.Library.INSTR.import.DC_Load
12
13 class.Chroma_6312A(DC_Load):
14     ...CMD_Get_Load_State.... = "LOAD?"  

15     ...CMD_Measure_Voltage.... = "MEASURE:VOLTage?"  

16     ...CMD_Measure_Current.... = "MEASURE:CURREnt?"  

17     ...CMD_Set_Mode.... = "MODE %s"  

18     +CMD_Set_Auto_Load.... = "CONFIGure:AUTO:LOAD ON"  

19     +CMD_Set_Channel.... = "CHANnel.%d"  

+20     +CMD_Set_Sound_On.... = "CONFIGure:SOUND:ON"  

21     ...CMD_Set_Dynamic_Current.... = "CURRENT:DYNAMIC:L%#.%3f"  

22     ...CMD_Set_Dynamic_Current_Slew_Rate.... = "CURRENT:DYNAMIC:%s.%#3f"  

23     ...CMD_Set_Dynamic_Current_Period.... = "CURRENT:DYNAMIC:T%#.%f"  

24     ...CMD_Set_Load_Short_Off.... = "LOAD:SHORT:OFF"  

25     ...CMD_Set_Load_Short_On.... = "LOAD:SHORT:ON"  

26     ...CMD_Set_Load_State_Off.... = "Load OFF"  

27     ...CMD_Set_Load_State_On.... = "LOAD:ON"  

28     ...CMD_Set_Load_State_All_Off.... = ":ABORT"  

29     ...CMD_Set_Load_State_All_On.... = ":RUN"
```

HEAD

Programmer C

```
6 .*.@Author.....:Rex.Wang
7 .*.@Last.editor.:Rex.Wang
8 .*.Copyright.(C).2021.Alpha-&Omega.Semiconductor.Ltd..All.rights.reserved.
9 """
10
11 from.Library.INSTR.import.DC_Load
12
13 class.Chroma_6312A(DC_Load):
14     ...CMD_Get_Load_State.... = "LOAD?"  

15     ...CMD_Measure_Voltage.... = "MEASURE:VOLTage?"  

16     ...CMD_Measure_Current.... = "MEASURE:CURREnt?"  

17     ...CMD_Set_Mode.... = "MODE %s"  

18     +CMD_Set_Auto_Load.... = "CONFIGure:AUTO:LOAD ON"  

+19     +CMD_Set_Auto_Load_Off.... = "CONFIGure:AUTO:LOAD OFF"  

20     ...CMD_Set_Channel.... = "CHANnel.%d"  

21     ...CMD_Set_Dynamic_Current.... = "CURRENT:DYNAMIC:L%#.%3f"  

22     ...CMD_Set_Dynamic_Current_Slew_Rate.... = "CURRENT:DYNAMIC:%s.%#3f"  

23     ...CMD_Set_Dynamic_Current_Period.... = "CURRENT:DYNAMIC:T%#.%f"  

24     ...CMD_Set_Load_Short_Off.... = "LOAD:SHORT:OFF"  

25     ...CMD_Set_Load_Short_On.... = "LOAD:SHORT:ON"  

26     ...CMD_Set_Load_State_Off.... = "Load OFF"  

27     ...CMD_Set_Load_State_On.... = "LOAD:ON"  

28     ...CMD_Set_Load_State_All_Off.... = ":ABORT"  

29     ...CMD_Set_Load_State_All_On.... = ":RUN"
```

Merged - DC_Load_Model.py

Merge

```
6 .*.@Author.....:Rex.Wang
7 .*.@Last.editor.:Rex.Wang
8 .*.Copyright.(C).2021.Alpha-&Omega.Semiconductor.Ltd..All.rights.reserved.
9 """
10
11 from.Library.INSTR.import.DC_Load
12
13 class.Chroma_6312A(DC_Load):
14     ...CMD_Get_Load_State.... = "LOAD?"  

15     ...CMD_Measure_Voltage.... = "MEASURE:VOLTage?"  

16     ...CMD_Measure_Current.... = "MEASURE:CURREnt?"  

17     ...CMD_Set_Mode.... = "MODE %s"  

18 ??
19 ??
20 ...
21 ...
22 ...
23 ...
24 ...
25 ...
26 ...
27 ...
28 ...
29 ...
30 ...  

??: CMD_Set_Channel.... = "CHANnel.%d"  

??: CMD_Set_Sound_On.... = "CONFIGure:SOUND:ON"  

??: CMD_Set_Dynamic_Current.... = "CURRENT:DYNAMIC:L%#.%3f"  

??: CMD_Set_Dynamic_Current_Slew_Rate.... = "CURRENT:DYNAMIC:%s.%#3f"  

??: CMD_Set_Dynamic_Current_Period.... = "CURRENT:DYNAMIC:T%#.%f"  

??: CMD_Set_Load_Short_Off.... = "LOAD:SHORT:OFF"  

??: CMD_Set_Load_Short_On.... = "LOAD:SHORT:ON"  

??: CMD_Set_Load_State_Off.... = "Load OFF"  

??: CMD_Set_Load_State_On.... = "LOAD:ON"  

??: CMD_Set_Load_State_All_Off.... = ":ABORT"  

??: CMD_Set_Load_State_All_On.... = ":RUN"
```

Click the row to edit

Left View: ASCII CRLF Tab 4 - 2 / + 3 Right View: ASCII CRLF Tab 4 - 2 / + 3 Bottom View: ASCII CRLF Tab 4 - 2 / + 2 / 12

Programmer C: Merge manually



Select code of programmer B or C

Two row need to be selected.

changes to-be-integrated

```
6 .*.@Author.....:Rex.Wang
7 .*.@Last.editor.:Rex.Wang
8 .*.Copyright.(C).2021.Alpha-&Omega.Semiconductor.Ltd..All.rights.reserved.
9 """
10
11 from.Library.INSTR.import.DC_Load
12
13 class.Chroma_6312A(DC_Load):
14     ...CMD_Get_Load_State....:= "LOAD?"  

15     ...CMD_Measure_Voltage....:= "MEASURE:VOLTage?"  

16     ...CMD_Measure_Current....:= "MEASURE:CURREnt?"  

17     ...CMD_Set_Mode....:= "MODE %s"  

18     +CMD_Set_Auto_Load....:= "CONFIGure:AUTO:LOAD ON"  

19     +CMD_Set_Channel....:= "CHANnel.%d"  

+20     +CMD_Set_Sound_On....:= "CONFIGure:SOUND:ON"  

21     ...CMD_Set_Dynamic_Current....:= "CURRENT:DYNAMIC:L% d %.3f"  

22     ...CMD_Set_Dynamic_Current_Slew_Rate....:= "CURRENT:DYNAMIC:%s %.3f"  

23     ...CMD_Set_Dynamic_Current_Period....:= "CURRENT:DYNAMIC:T% d %.3f"  

24     ...CMD_Set_Load_Short_Off....:= "LOAD:SHORT:OFF"  

25     ...CMD_Set_Load_Short_On....:= "LOAD:SHORT:ON"  

26     ...CMD_Set_Load_State_Off....:= "Load OFF"  

27     ...CMD_Set_Load_State_On....:= "LOAD:ON"  

28     ...CMD_Set_Load_State_All_Off....:= ":ABORT"  

29     ...CMD_Set_Load_State_All_On....:= ":RUN"
```

HEAD

```
6 .*.@Author.....:Rex.Wang
7 .*.@Last.editor.:Rex.Wang
8 .*.Copyright.(C).2021.Alpha-&Omega.Semiconductor.Ltd..All.rights.reserved.
9 """
10
11 from.Library.INSTR.import.DC_Load
12
13 class.Chroma_6312A(DC_Load):
14     ...CMD_Get_Load_State....:= "LOAD?"  

15     ...CMD_Measure_Voltage....:= "MEASURE:VOLTage?"  

16     ...CMD_Measure_Current....:= "MEASURE:CURREnt?"  

17     ...CMD_Set_Mode....:= "MODE %s"  

18     +CMD_Set_Auto_Load....:= "CONFIGure:AUTO:LOAD ON"  

+19     +CMD_Set_Auto_Load_Off....:= "CONFIGure:AUTO:LOAD OFF"  

20     +CMD_Set_Channel....:= "CHANnel.%d"  

21     ...CMD_Set_Dynamic_Current....:= "CURRENT:DYNAMIC:L% d %.3f"  

22     ...CMD_Set_Dynamic_Current_Slew_Rate....:= "CURRENT:DYNAMIC:%s %.3f"  

23     ...CMD_Set_Dynamic_Current_Period....:= "CURRENT:DYNAMIC:T% d %.3f"  

24     ...CMD_Set_Load_Short_Off....:= "LOAD:SHORT:OFF"  

25     ...CMD_Set_Load_Short_On....:= "LOAD:SHORT:ON"  

26     ...CMD_Set_Load_State_Off....:= "Load OFF"  

27     ...CMD_Set_Load_State_On....:= "LOAD:ON"  

28     ...CMD_Set_Load_State_All_Off....:= ":ABORT"  

29     ...CMD_Set_Load_State_All_On....:= ":RUN"
```

Merged - DC_Load_Model.py

```
6 .*.@Author.....:Rex.Wang
7 .*.@Last.editor.:Rex.Wang
8 .*.Copyright.(C).2021.Alpha-&Omega.Semiconductor.Ltd..All.rights.reserved.
9 """
10
11 from.Library.INSTR.import.DC_Load
12
13 class.Chroma_6312A(DC_Load):
14     ...CMD_Get_Load_State....:= "LOAD?"  

15     ...CMD_Measure_Voltage....:= "MEASURE:VOLTage?"  

16     ...CMD_Measure_Current....:= "MEASURE:CURREnt?"  

17     ...CMD_Set_Mode....:= "MODE %s"  

18 ??
19 ??
20     +CMD_Set_Channel....:= "CHANnel.%d"  

+21     +CMD_Set_Sound_On....:= "CONFIGure:SOUND:ON"  

22     ...CMD_Set_Dynamic_Current....:= "CURRENT:DYNAMIC:L% d %.3f"  

23     ...CMD_Set_Dynamic_Current_Slew_Rate....:= "CURRENT:DYNAMIC:%s %.3f"  

24     ...CMD_Set_Dynamic_Current_Period....:= "CURRENT:DYNAMIC:T% d %.3f"  

25     ...CMD_Set_Load_Short_Off....:= "LOAD:SHORT:OFF"  

26     ...CMD_Set_Load_Short_On....:= "LOAD:SHORT:ON"  

27     ...CMD_Set_Load_State_Off....:= "Load OFF"  

28     ...CMD_Set_Load_State_On....:= "LOAD:ON"  

29     ...CMD_Set_Load_State_All_Off....:= ":ABORT"  

30     ...CMD_Set_Load_State_All_On....:= ":RUN"
```

Left View: ASCII CRLF Tab 4 - 2 / + 3 Right View: ASCII CRLF Tab 4 - 2 / + 3 Bottom View: ASCII CRLF Tab 4 - 2 / + 2 / 12

Programmer C: Merge manually



The screenshot shows the TortoiseGitMerge application interface. At the top, there's a toolbar with various icons for file operations like Save, Undo, Redo, Copy, Paste, Find, Goto Line, and a 'Mark as resolved' button (circled in red). Below the toolbar are three main panes:

- Left View (changes to-be-integrated):** Shows the code from version V1.1.0. Lines 18 and 19 are highlighted in red, indicating they are new or modified.
- Right View (HEAD):** Shows the code from version V1.2.0. Lines 18 and 19 are highlighted in yellow, indicating they are new or modified.
- Merged View (* Merged - DC_Load_Model.py):** Shows the final merged code. Lines 18 and 19 are now highlighted in green, indicating they have been resolved.

At the bottom of the interface, there are status bars for Left View, Right View, and Bottom View, each showing options for ASCII, CRLF, Tab 4, and line numbers.

Check the merged file is correct then click “Mark as resolved” and “Save”.

Programmer C: Commit



Common Library - v1.1 - Copy

File Home Share View

This PC > Data (D:) > Rex > Auto test common library > Common Library - v1.1 - Copy >

Search Common Library - v1.1 - Copy

Quick access

- Desktop
- Downloads
- Documents
- Pictures
- DMM_Model
- Common Library
- Common Library -
- Common-library
- Version Control Toc
- OneDrive - Personal
- This PC
- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Local Disk (C:)
- Data (D:)**
- Network

Name Date modified Type Size

- .git 8/16/2022 2:11 AM File folder
- Document 8/15/2022 5:50 PM File folder
- Common_library_example.py 8/15/2022 3:20 PM PY File 9 KB
- DAQ_Model.py
- DC_Load_Model.py
- DC_Source_Model.py
- DMM_2_Model.py
- DMM_Model.py
- Enable_Control_Model.py
- Function_Generator_Model.py
- INSTR.py
- Load_Meter_Model.py
- Oscilloscope_Model.py
- Power_Meter_Model.py
- Source_Meter_Model.py

D:\Rex\Auto test common library\Common Library - v1.1 - Copy - Commit - TortoiseGit

Commit to: master new branch

Message:

Squashed commit of the following:

commit ebc85e9da07ce4524a87d899d70d0912b6fd53c1
Merge: 42e7cd5 5938b87
Author: AOS-RexWang <rex.wang@tw-aosmd.com>
Date: Mon Aug 15 17:02:18 2022 +0800

Merge branch 'master' of https://github.com/AOS-RexWang/Common-Library

commit ebc85e9da07ce4524a87d899d70d0912b6fd53c1

Amend Last Commit
 Set author date 8/16/2022 2:11:46 AM
 Set author AOS-RexWang <rex.wang@tw-aosmd.com> Add Signed-off-by

Changes made (double-click on file for diff):

Check: All None Unversioned Versioned Added Deleted Modified **Files** Submodules

| Path | Extension | Status | Lines added | Lines removed |
|------------------|-----------|----------|-------------|---------------|
| DC_Load_Model.py | .py | Modified | 1 | 0 |

1 files selected, 1 files total

View Patch>

Staging support (EXPERIMENTAL)
 Show Unversioned Files
 Do not autoselect submodules
 Show Whole Project
 Message only

Commit Cancel Help

15 items

Programmer C: Commit



Common Library - v1.1 - Copy

File Home Share View

This PC > Data (D:) > Rex > Auto test common library > Common Library - v1.1 - Copy

Search Common Library - v1.1 - Copy

Quick access

- Desktop
- Downloads
- Documents
- Pictures
- DMM_Model
- Common Library
- Common Library -
- Common-library
- Version Control Toc
- OneDrive - Personal
- This PC
- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Local Disk (C:)
- Data (D:)
- Network

Name Date modified Type Size

| Name | Date modified | Type | Size |
|-----------------------------|-------------------|-------------|------|
| .git | 8/16/2022 2:13 AM | File folder | |
| Document | 8/15/2022 5:50 PM | File folder | |
| Common_library_example.py | 8/15/2022 3:20 PM | PY File | 9 KB |
| DAQ_Model.py | 8/15/2022 3:20 PM | | |
| DC_Load_Model.py | 8/16/2022 2:09 AM | | |
| DC_Source_Model.py | 8/15/2022 3:20 PM | | |
| DMM_2_Model.py | 8/15/2022 3:20 PM | | |
| DMM_Model.py | 8/15/2022 3:20 PM | | |
| Enable_Control_Model.py | 8/15/2022 3:20 PM | | |
| Function_Generator_Model.py | 8/15/2022 3:20 PM | | |
| INSTR.py | 8/15/2022 3:20 PM | | |
| Load_Meter_Model.py | 8/15/2022 3:20 PM | | |
| Oscilloscope_Model.py | 8/15/2022 3:20 PM | | |
| Power_Meter_Model.py | 8/15/2022 3:20 PM | | |
| Source_Meter_Model.py | 8/15/2022 3:20 PM | | |

D:\Rex\Auto test common library\Common Library - v1.1 - Copy - Commit - TortoiseGit

Commit to: master new branch

Message:

Squashed commit of the following:

```
commit ebc85e9da07ce4524a87d899d70d0912b6fd53c1
Merge: 42e7cd5 5938bb7
Author: AOS-RexWang <rex.wang@tw-aosmd.com>
Date: Mon Aug 15 17:02:18 2022 +0800

Merge branch 'master' into 'master'
```

TortoiseGit

It looks as if there is a conflict hint (a line like "# Conflicts:") in your commit message. This hint is automatically added by Git for cli users and there is no need to keep it.

Amend Last Commit

Set author date

Set author

Do you want to ignore this warning and keep these lines or abort committing in order to edit the commit message?

You can automatically remove these lines by enabling "Strip lines starting with #" in commit messages" in TortoiseGit settings.

→ Ignore

→ Abort

Don't show this message again

1 files selected, 1 files total

View Patch>>

Staging support (EXPERIMENTAL)

Show Unversioned Files

Do not autoselect submodules

Show Whole Project

Message only

Commit Cancel Help

15 items

File Explorer icon

1 file selected, 1 files total

View Patch>>

Commit Cancel Help

Programmer C: Commit



Common Library - v1.1 - Copy

File Home Share View

This PC > Data (D:) > Rex > Auto test common library > Common Library - v1.1 - Copy

Search Common Library - v1.1 - Copy

Quick access

- Desktop
- Downloads
- Documents
- Pictures
- DMM_Model
- Common Library
- Common Library -
- Common-library
- Version Control Toc
- OneDrive - Personal
- This PC
- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Local Disk (C:)
- Data (D:)**
- Network

Name Date modified Type Size

| Name | Date modified | Type | Size |
|-----------------------------|-------------------|-------------|------|
| .git | 8/16/2022 2:13 AM | File folder | |
| Document | 8/15/2022 5:50 PM | File folder | |
| Common_library_example.py | 8/15/2022 3:20 PM | PY File | 9 KB |
| DAQ_Model.py | 8/15/2022 3:20 PM | | |
| DC_Load_Model.py | 8/16/2022 2:09 AM | | |
| DC_Source_Model.py | 8/15/2022 3:20 PM | | |
| DMM_2_Model.py | 8/15/2022 3:20 PM | | |
| DMM_Model.py | 8/15/2022 3:20 PM | | |
| Enable_Control_Model.py | 8/15/2022 3:20 PM | | |
| Function_Generator_Model.py | 8/15/2022 3:20 PM | | |
| INSTR.py | 8/15/2022 3:20 PM | | |
| Load_Meter_Model.py | 8/15/2022 3:20 PM | | |
| Oscilloscope_Model.py | 8/15/2022 3:20 PM | | |
| Power_Meter_Model.py | 8/15/2022 3:20 PM | | |
| Source_Meter_Model.py | 8/15/2022 3:20 PM | | |

D:\Rex\Auto test common library\Common Library - v1.1 - Copy - Commit - TortoiseGit

Commit to: master new branch

Message:

Author: AOS-RexWang <rex.wang@tw-aosmd.com>
Date: Mon Aug 15 14:35:46 2022 +0800

DC_Load_Model V1.2.0
Add command: CMD_Set_Sound_On

Conflicts:
DC_Load_Model.py

Amend Last Commit
 Set author date 8/16/2022 2:15:05 AM
 Set author AOS-RexWang <rex.wang@tw-aosmd.com> Add Signed-off-by

Changes made (double-click on file for diff):
Check: All None Unversioned Versioned Added Deleted Modified Files Submodules

| Path | Extension | Status | Lines added | Lines removed |
|------------------|-----------|----------|-------------|---------------|
| DC_Load_Model.py | .py | Modified | 1 | 0 |

1 files selected, 1 files total

Staging support (EXPERIMENTAL)
 Show Unversioned Files
 Do not autoselect submodules

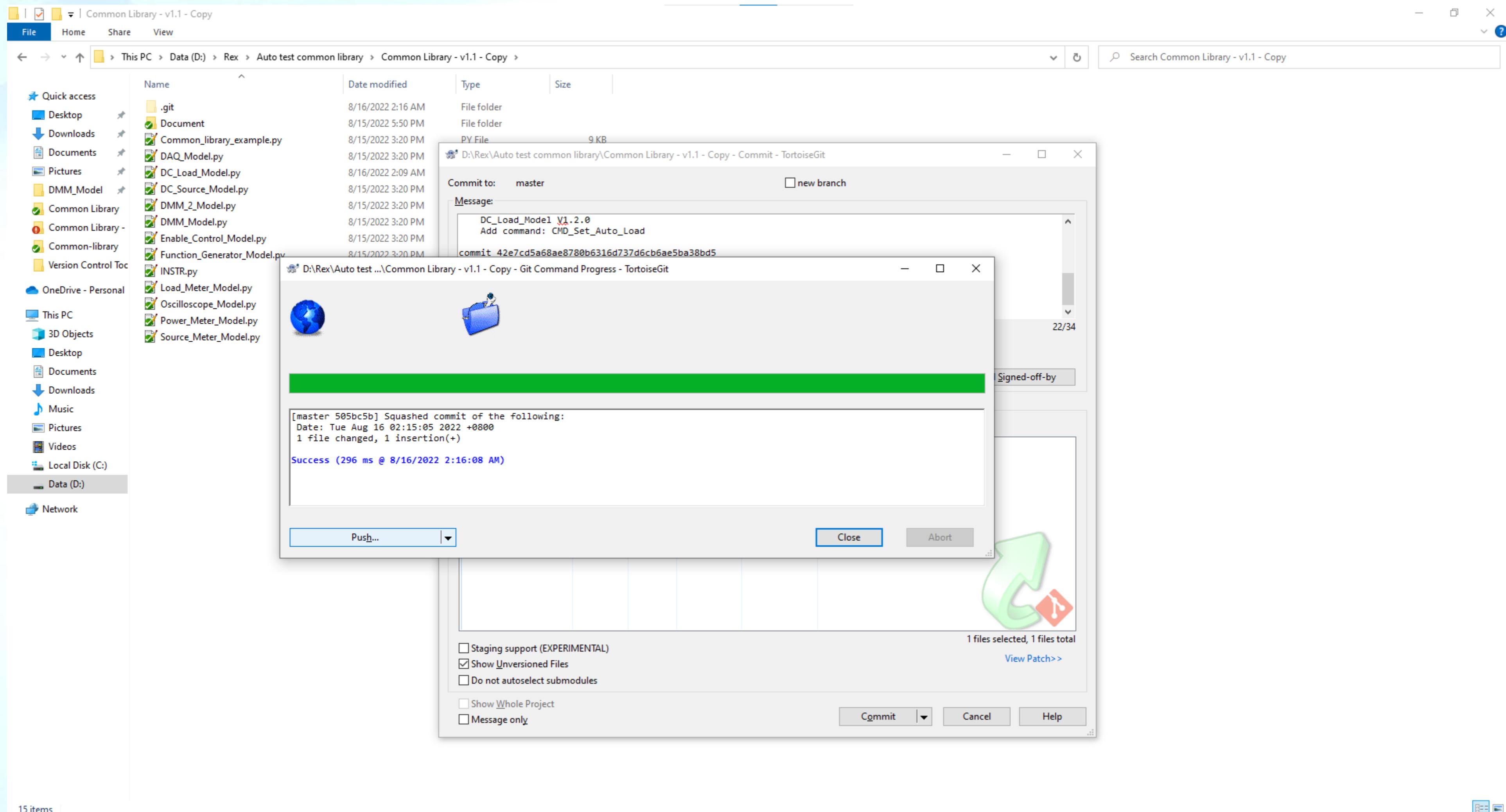
Show Whole Project
 Message only

Commit Cancel Help

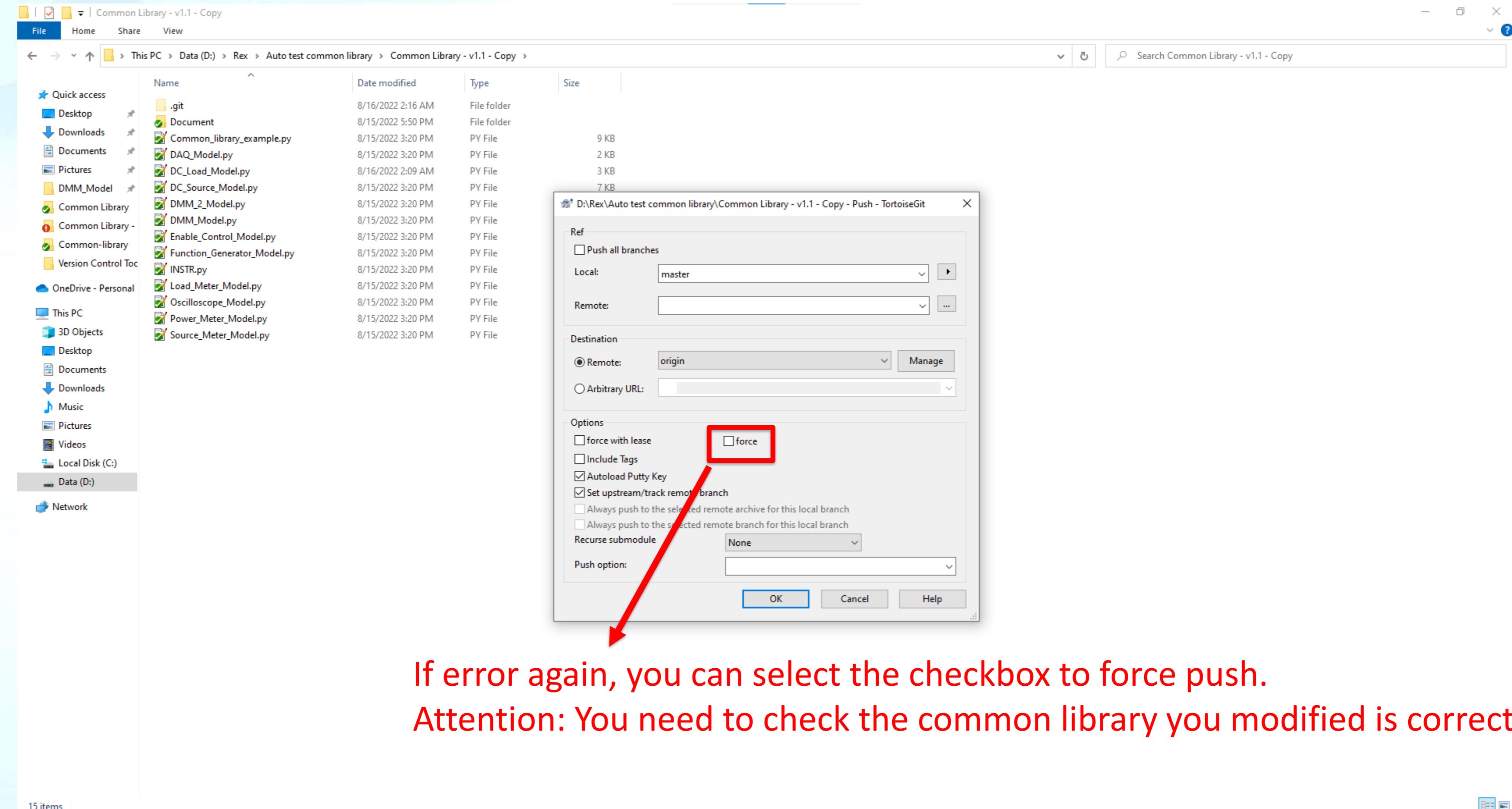
15 items

Delete the message

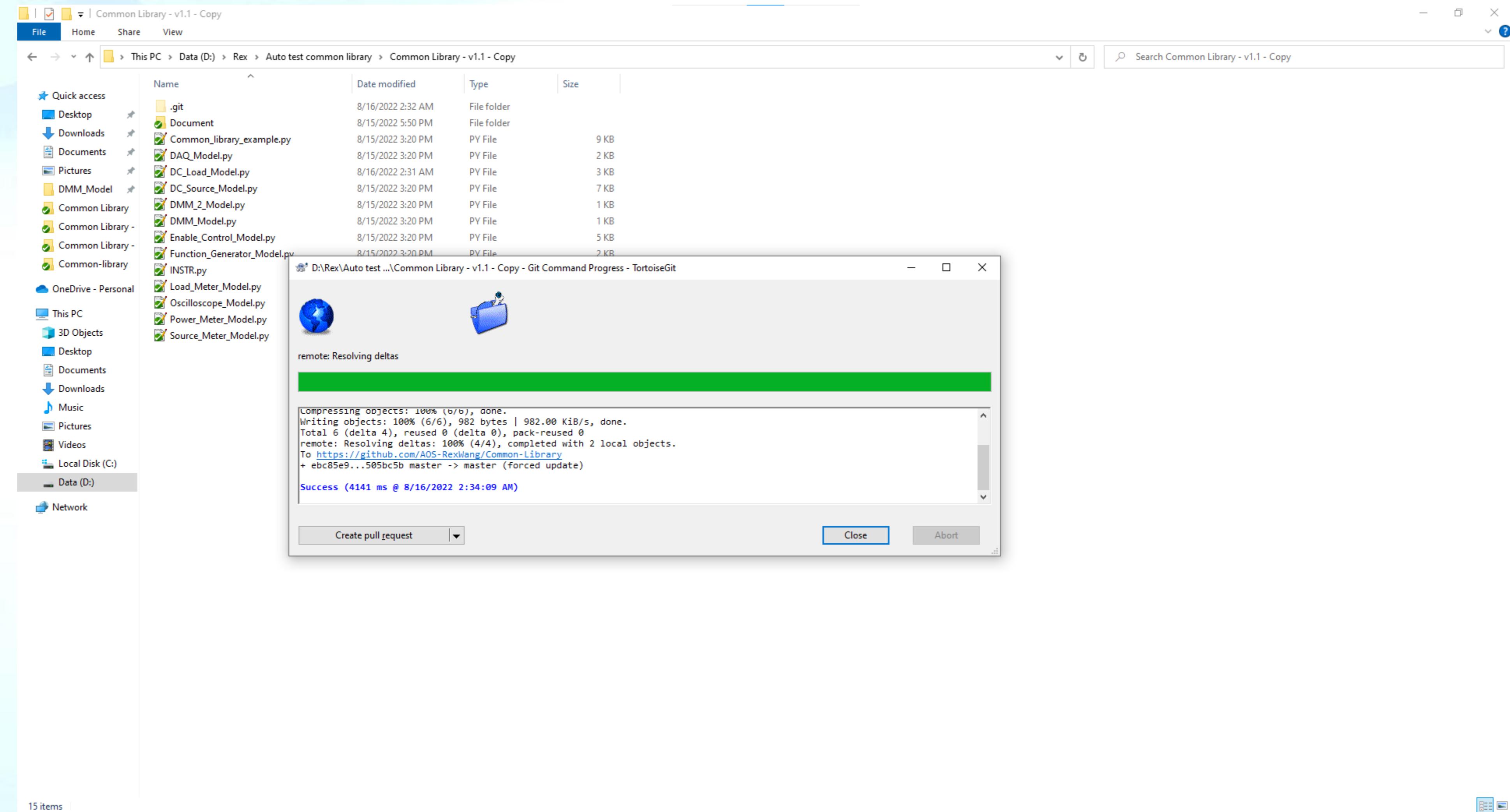
Programmer C: Commit



Programmer C: Push



Programmer C: Push



Result of all edits by Programmer A, B and C



DC_Load_Model.py: Working Tree - TortoiseGitMerge

File Edit

Save Reload Undo Redo Copy Paste Find Find Previous Goto Line Mark as resolved Previous difference Next difference Previous conflict Next conflict Previous inline difference Next inline difference Use left text block Show Whitespace Compare whitespace Ignore whitespace changes Ignore all whitespace changes Inline diff Inline word-wise Regex Filter Ignore Comments View Bars Wrap Lines Switch between single and double pane view Switch left and right view Collapse

DC_Load_Model.py: d6ba04eb

```
1 """  
2 -* @File.....:DC_Load_Model.py  
3 -* @Version...: V1.0.0  
4 -* @Date.....: July 01, 2022  
5 -* @Brief....: Child class of DC_Load.  
6 -* @Author...: Rex Wang  
7 -* @Last editor: Rex Wang  
8 -* Copyright: (C) 2021 Alpha & Omega Semiconductor Ltd. All rights reserved.  
9 """  
10  
11 from Library.INSTR import DC_Load  
12  
13 class Chroma_6312A(DC_Load):  
14     CMD_Get_Load_State = "LOAD?"  
15     CMD_Measure_Voltage = "MEASURE:VOLTAGE?"  
16     CMD_Measure_Current = "MEASURE:CURRENT?"  
17     CMD_Set_Mode = "MODE %s"  
18     CMD_Set_Channel = "CHANNEL %d"  
19     CMD_Set_Dynamic_Current = "CURRENT:DYNAMIC:L% d.%3f"  
20     CMD_Set_Dynamic_Current_Slew_Rate = "CURRENT:DYNAMIC:%s.%3f"  
21     CMD_Set_Dynamic_Current_Period = "CURRENT:DYNAMIC:T% d.%f"  
22     CMD_Set_Load_Short_Off = "LOAD:SHORT OFF"  
23     CMD_Set_Load_Short_On = "LOAD:SHORT ON"  
24     CMD_Set_Load_State_Off = "Load OFF"  
25     CMD_Set_Load_State_On = "LOAD ON"  
26     CMD_Set_Load_State_All_Off = "ABORT"  
27     CMD_Set_Load_State_All_On = "RUN"  
28     CMD_Set_Resistance = "RESISTANCE:L1.%3f"  
29     CMD_Set_Resistance_Slew_Rate = "RESISTANCE:%s.%3f"  
30     CMD_Set_Static_Current = "CURRENT:STATIC:L1.%3f"  
31     CMD_Set_Static_Current_Slew_Rate = "CURRENT:STATIC:%s.%3f"  
32  
33 class Chroma_63600_Series(DC_Load):  
34     CMD_Get_Load_State = "LOAD?"  
35     CMD_Measure_Voltage = "MEASURE:VOLTAGE?"  
36     CMD_Measure_Current = "MEASURE:CURRENT?"  
37     CMD_Set_Mode = "MODE %s"  
38     CMD_Set_Channel = "CHANNEL %d"  
39     CMD_Set_Dynamic_Current = "CURRENT:DYNAMIC:L% d.%3f"  
40     CMD_Set_Dynamic_Current_Slew_Rate = "CURRENT:DYNAMIC:%s.%3f"  
41     CMD_Set_Dynamic_Current_Period = "CURRENT:DYNAMIC:T% d.%f"  
42     CMD_Set_Load_Short_Off = "LOAD:SHORT OFF"  
43     CMD_Set_Load_Short_On = "LOAD:SHORT ON"  
44     CMD_Set_Load_State_Off = "Load OFF"  
45     CMD_Set_Load_State_On = "LOAD ON"  
46     CMD_Set_Load_State_All_Off = "ABORT"  
47     CMD_Set_Load_State_All_On = "RUN"  
48     CMD_Set_Resistance = "RESISTANCE:STATIC:L1.%3f"  
49     CMD_Set_Resistance_Slew_Rate = ""  
50     CMD_Set_Static_Current = "CURRENT:STATIC:L1.%3f"  
51     CMD_Set_Static_Current_Slew_Rate = "CURRENT:STATIC:%s.%3f"
```

DC_Load_Model.py: Working Tree

```
1 """  
2 -* @File.....:DC_Load_Model.py  
3 -* @Version...: V1.0.0  
4 -* @Date.....: July 01, 2022  
5 -* @Brief....: Child class of DC_Load.  
6 -* @Author...: Rex Wang  
7 -* @Last editor: Rex Wang  
8 -* Copyright: (C) 2021 Alpha & Omega Semiconductor Ltd. All rights reserved.  
9 """  
10  
11 from Library.INSTR import DC_Load  
12  
13 class Chroma_6312A(DC_Load):  
14     CMD_Get_Load_State = "LOAD?"  
15     CMD_Measure_Voltage = "MEASURE:VOLTAGE?"  
16     CMD_Measure_Current = "MEASURE:CURRENT?"  
17     CMD_Set_Mode = "MODE %s"  
18     CMD_Set_Auto_Load_On = "CONFIGURE:AUTO:LOAD ON"  
19     CMD_Set_Auto_Load_Off = "CONFIGURE:AUTO:LOAD OFF"  
20     CMD_Set_Channel = "CHANNEL %d"  
21     CMD_Set_Sound_On = "CONFIGURE:SOUND:ON"  
22     CMD_Set_Dynamic_Current = "CURRENT:DYNAMIC:L% d.%3f"  
23     CMD_Set_Dynamic_Current_Slew_Rate = "CURRENT:DYNAMIC:%s.%3f"  
24     CMD_Set_Dynamic_Current_Period = "CURRENT:DYNAMIC:T% d.%f"  
25     CMD_Set_Load_Short_Off = "LOAD:SHORT OFF"  
26     CMD_Set_Load_Short_On = "LOAD:SHORT ON"  
27     CMD_Set_Load_State_Off = "Load OFF"  
28     CMD_Set_Load_State_On = "LOAD ON"  
29     CMD_Set_Load_State_All_Off = "ABORT"  
30     CMD_Set_Load_State_All_On = "RUN"  
31     CMD_Set_Resistance = "RESISTANCE:L1.%3f"  
32     CMD_Set_Resistance_Slew_Rate = "RESISTANCE:%s.%3f"  
33     CMD_Set_Static_Current = "CURRENT:STATIC:L1.%3f"  
34     CMD_Set_Static_Current_Slew_Rate = "CURRENT:STATIC:%s.%3f"  
35  
36 class Chroma_63600_Series(DC_Load):  
37     CMD_Get_Load_State = "LOAD?"  
38     CMD_Measure_Voltage = "MEASURE:VOLTAGE?"  
39     CMD_Measure_Current = "MEASURE:CURRENT?"  
40     CMD_Set_Mode = "MODE %s"  
41     CMD_Set_Channel = "CHANNEL %d"  
42     CMD_Set_Dynamic_Current = "CURRENT:DYNAMIC:L% d.%3f"  
43     CMD_Set_Dynamic_Current_Slew_Rate = "CURRENT:DYNAMIC:%s.%3f"  
44     CMD_Set_Dynamic_Current_Period = "CURRENT:DYNAMIC:T% d.%f"  
45     CMD_Set_Load_Short_Off = "LOAD:SHORT OFF"  
46     CMD_Set_Load_Short_On = "LOAD:SHORT ON"  
47     CMD_Set_Load_State_Off = "Load OFF"  
48     CMD_Set_Load_State_On = "LOAD ON"  
49     CMD_Set_Load_State_All_Off = "ABORT"  
50     CMD_Set_Load_State_All_On = "RUN"  
51     CMD_Set_Resistance = "RESISTANCE:STATIC:L1.%3f"  
52     CMD_Set_Resistance_Slew_Rate = ""  
53     CMD_Set_Static_Current = "CURRENT:STATIC:L1.%3f"
```

Column: 21 | Left View: ASCII CRLF Tab 4 - 1 | Right View: ASCII CRLF Tab 4 + 4 |