

Discarding changes and reverting commits

Getting rid of unwanted changes

Case 1: Change **has not been** committed yet: “**discard change**”

- Go back to last committed version

Case 2: Change **has been** committed: “**revert commit**”

- Add a commit undoing the unwanted commit

Case 1: Discarding uncommitted changes

- Done file by file

Example: experimental change in demo.py

The screenshot shows the Spyder Python IDE interface. The main editor displays the code for `demo.py`, which includes comments and print statements. A commit dialog is open, showing the changes to be committed. The dialog has a 'Changes' tab with a list of files: `demo.py` and `demo.txt`. A red arrow points to the `demo.py` entry. The 'Commit to master' button is visible at the bottom of the dialog. The status bar at the bottom indicates the current branch is 'master' and the commit message is 'Summary (required)'.

```
37 # What sho
38
39 filename =
40
41 # Open a f
42
43 fh = open(f
44
45 # Use the
46 # write()
47 # it's giv
48 # character
49
50 print("Where
51 print(name+
52
53 # Use the
54 #
55 # Print ca
56 # formats
57 # insertin
58 #
59 # The file
60
61 print("It w
62 print("The
63
64 # Close th
65
66 fh.close()
67
```

Commit dialog details:

- Current repository: g02-hello-pjw-demo
- Current branch: master
- Fetch origin: Last fetched 16 minutes ago
- Changes: 2 changed files
- Files: demo.py, demo.txt
- Commit to master

Unintended differences in demo.txt

The screenshot shows the Spyder Python IDE with a Git commit dialog open for the file `demo.txt`. The dialog displays two changes:

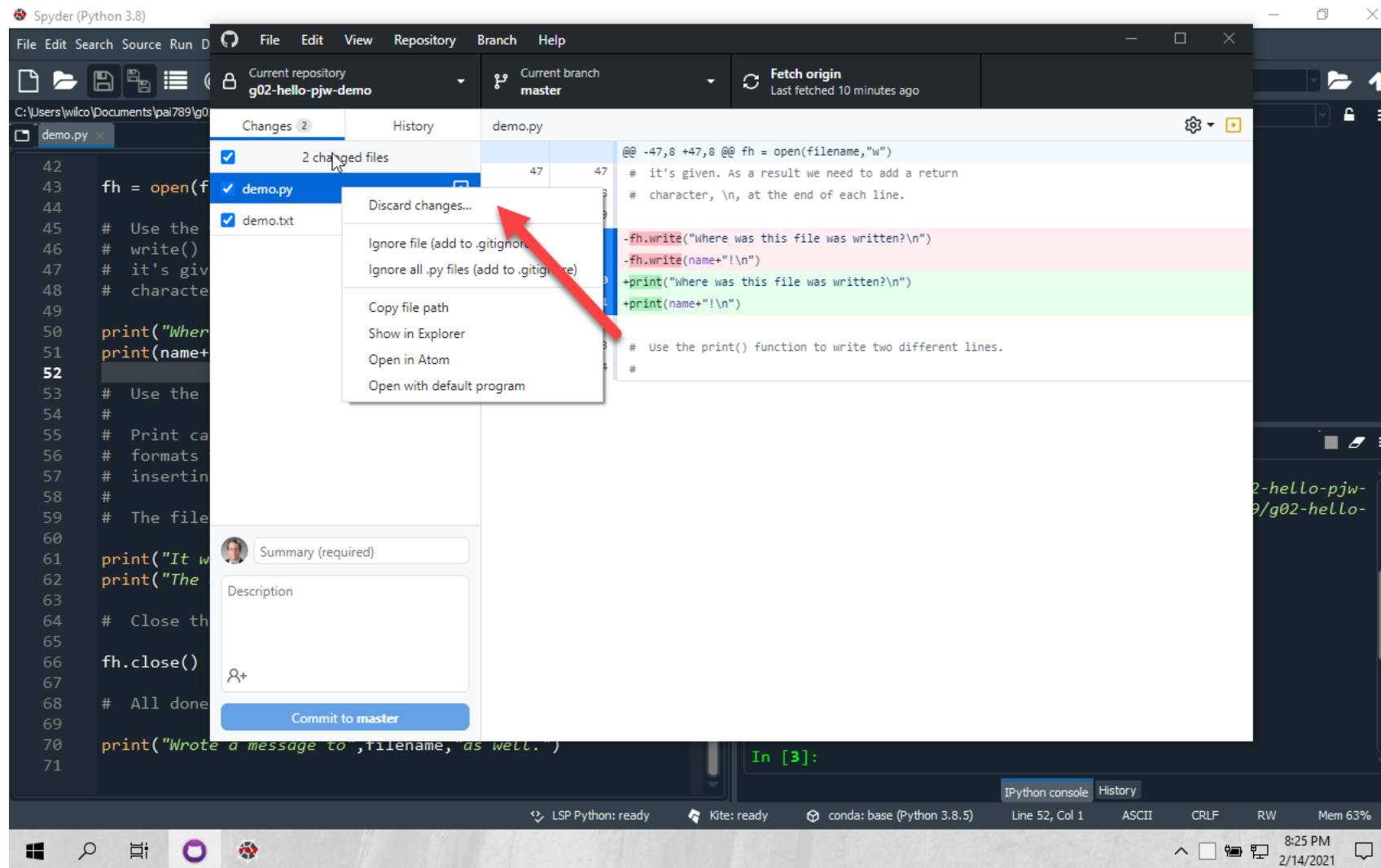
- Line 1: Added (indicated by a blue background)
- Line 2: Modified (indicated by a red background)

The commit message is shown as follows:

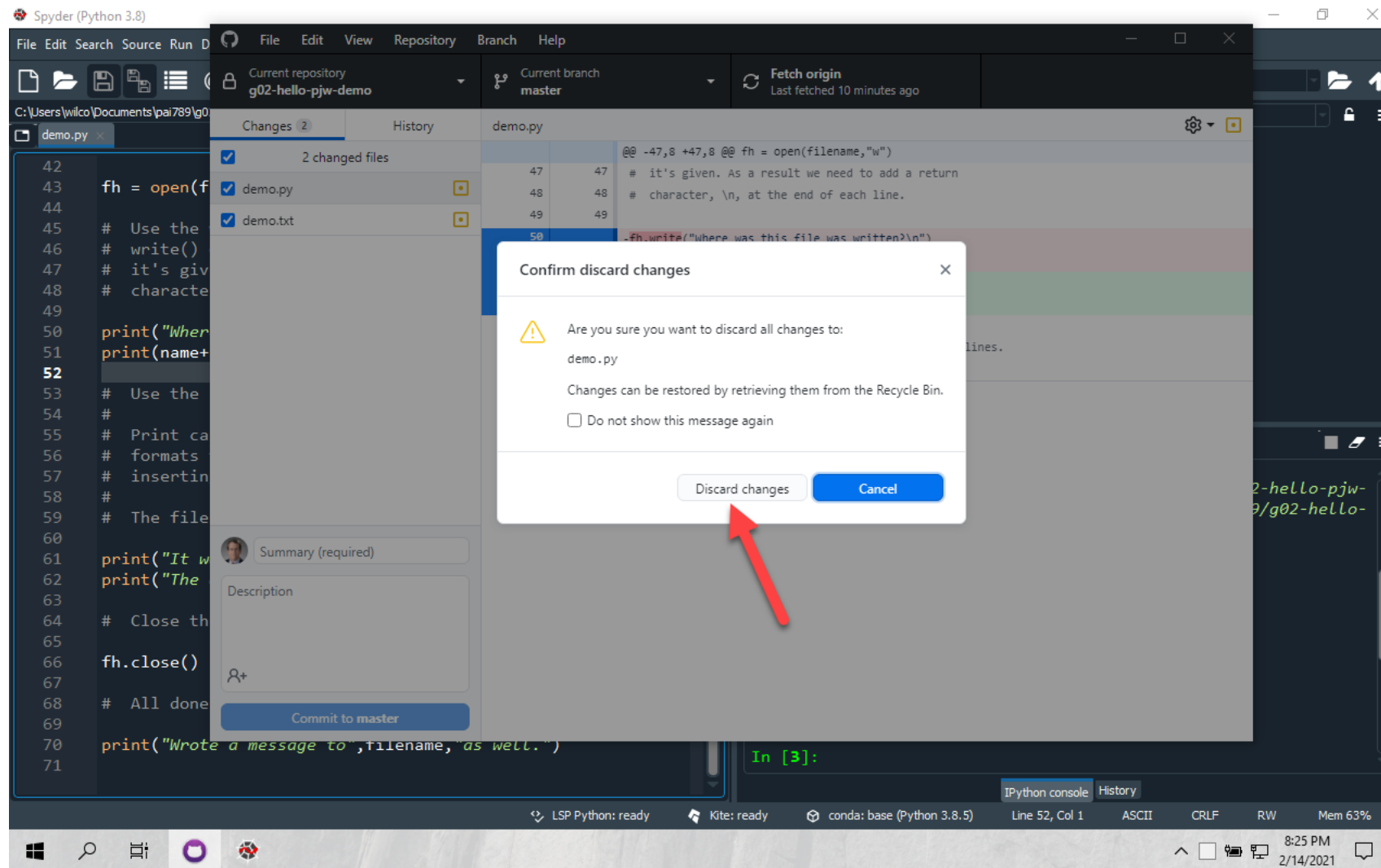
```
@@ -1,4 +1,2 @@
-Where was this file was written?
-The Maxwell School!
It was written during 2021
The answer is 42
```

A red arrow points to the `demo.txt` file in the list of changed files. The commit dialog also includes a "Summary (required)" field, a "Description" field, and a "Commit to master" button.

Right click to discard changes to demo.py



Confirmation dialog



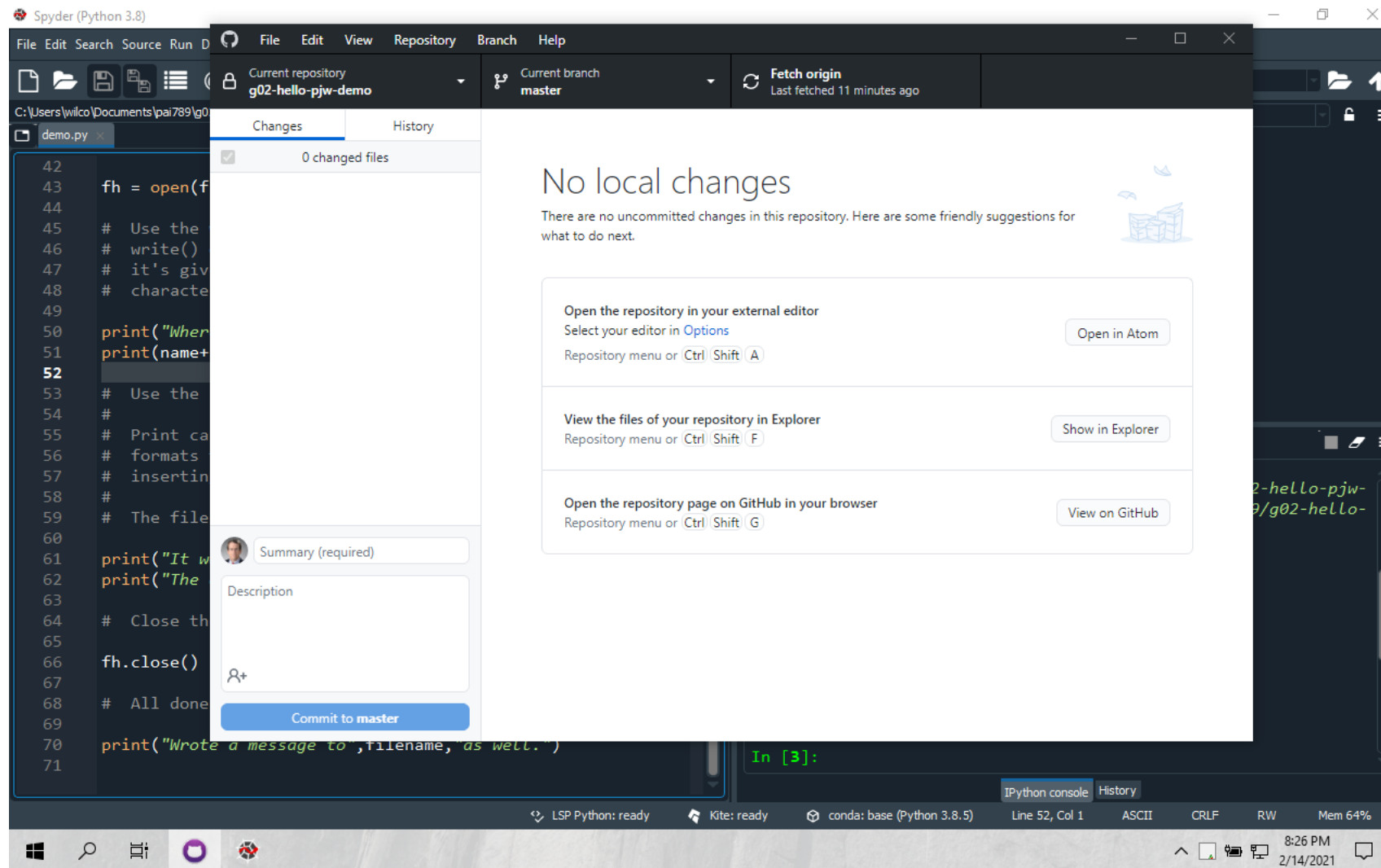
Remaining difference in demo.txt

The screenshot shows the Spyder Python IDE with a Git commit window open. The window displays the changes in the file `demo.txt`. The commit message is: `@@ -1,4 +1,2 @@`. The changes are summarized as follows:

Line	Old	New
1	-Where was this file was written?	-The Maxwell School!
2	-The Maxwell School!	-The Maxwell School!
3	It was written during 2021	
4	The answer is 42	

Two red arrows point from the commit message area to the file `demo.txt` in the file list. The commit message area includes a text input field for the commit message, a description field, and a button labeled `Commit to master`. The background shows the Spyder IDE interface with a Python script open in the editor.

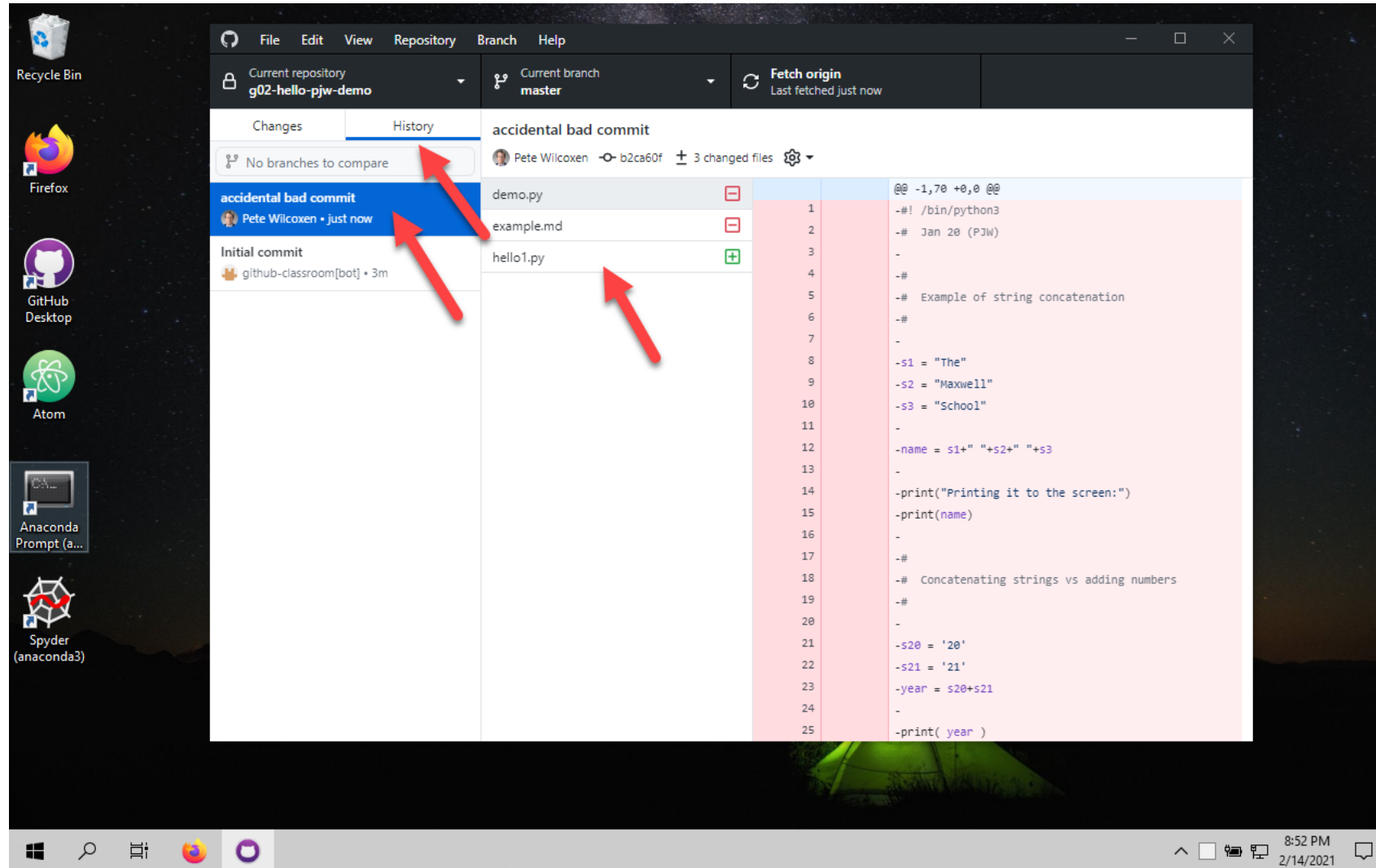
After discarding changes demo.txt changes



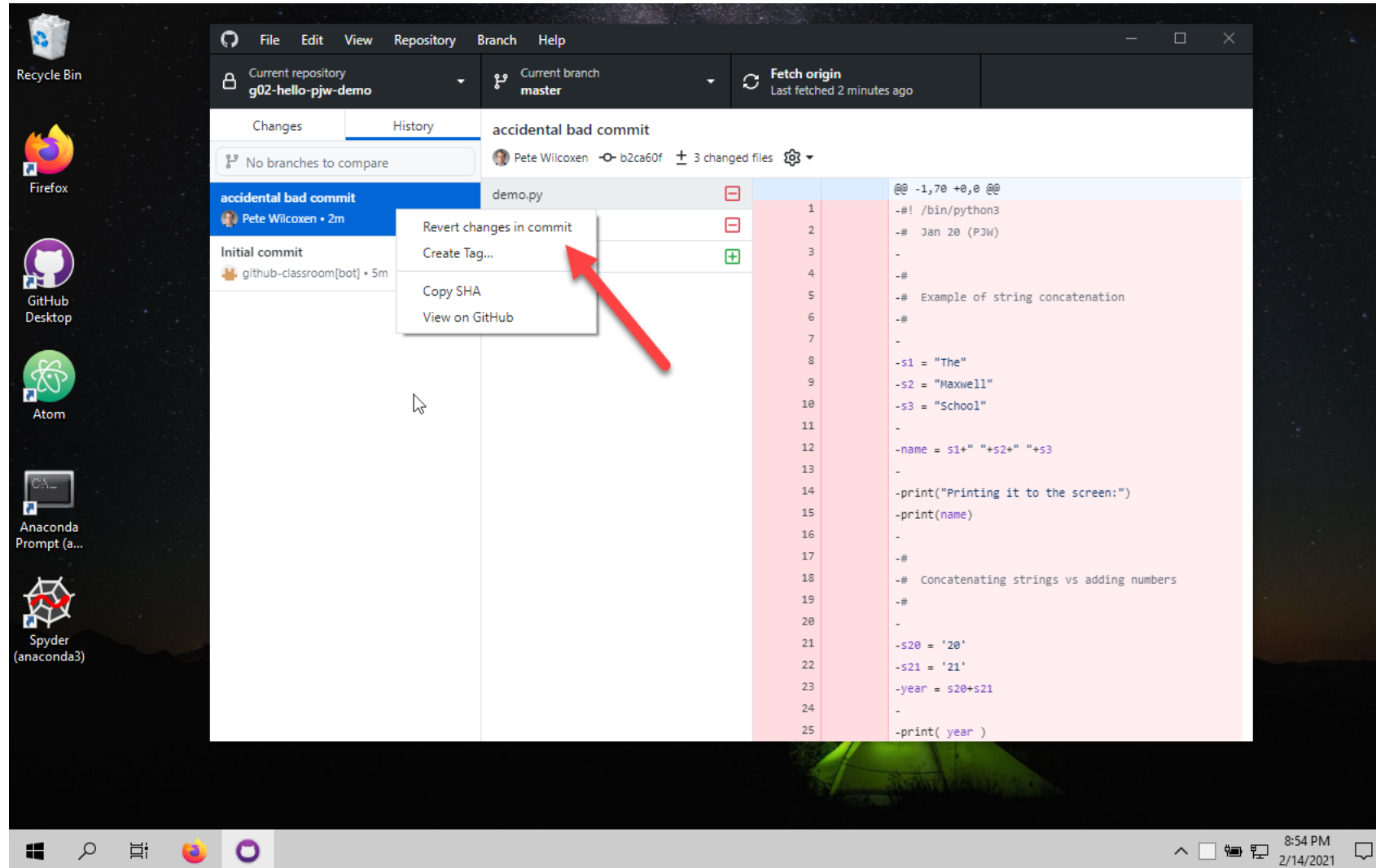
Case 2: Reverting a commit

- Operates on all files in the commit at once

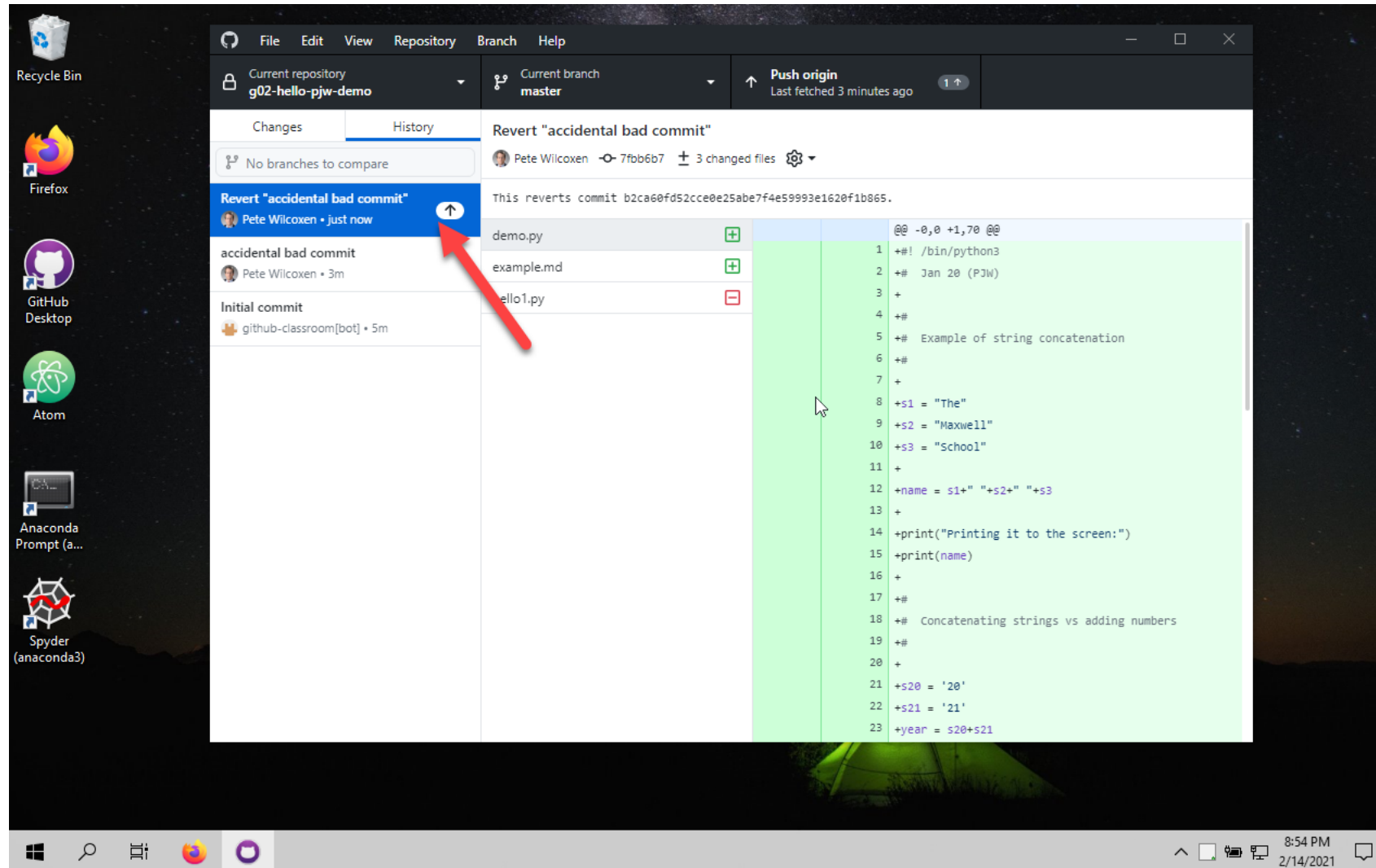
Example: accidental destructive commit



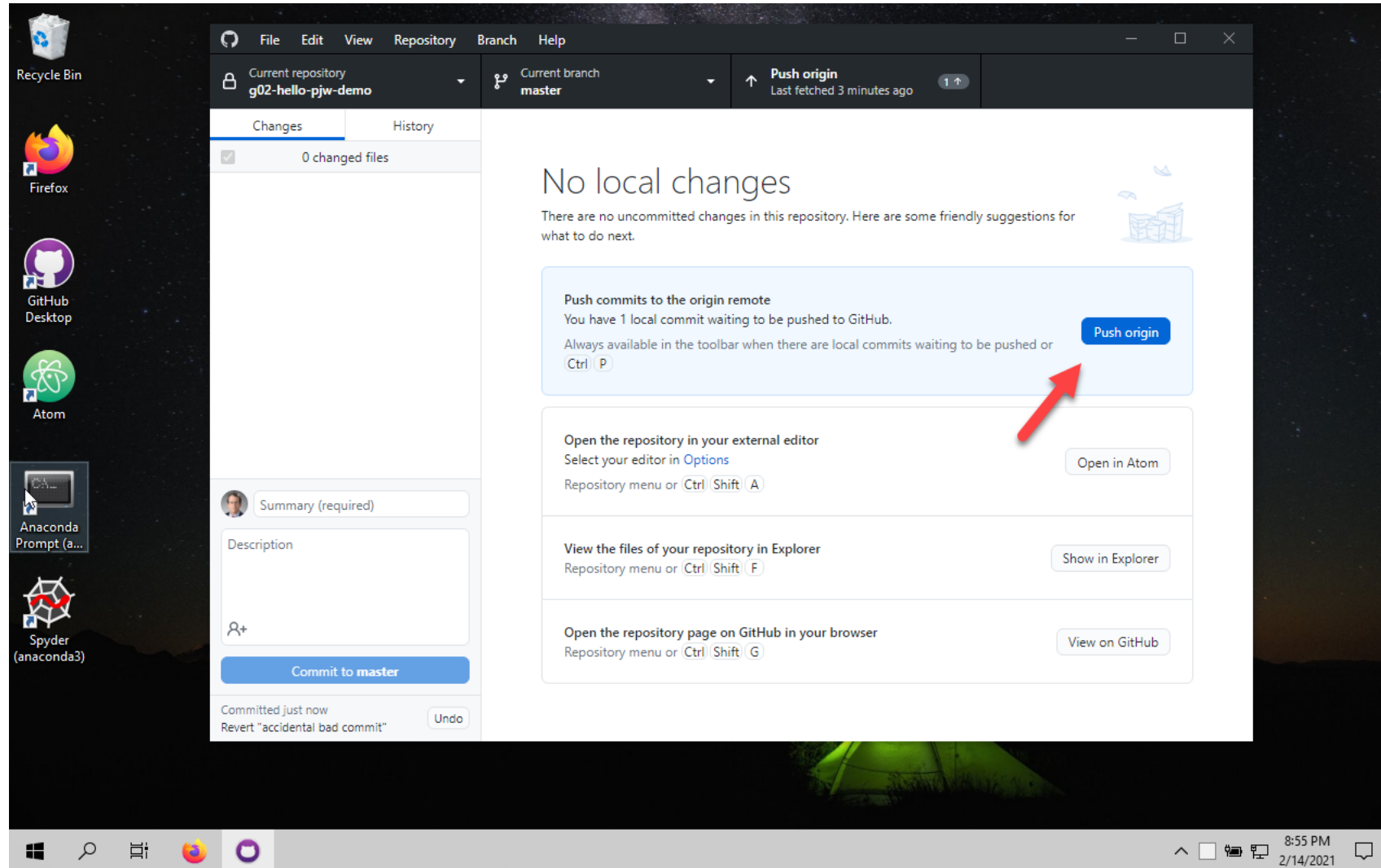
Right click to revert commit



New commit reverses the previous one



Push the new commit



Files are restored and hello1.py has been removed

