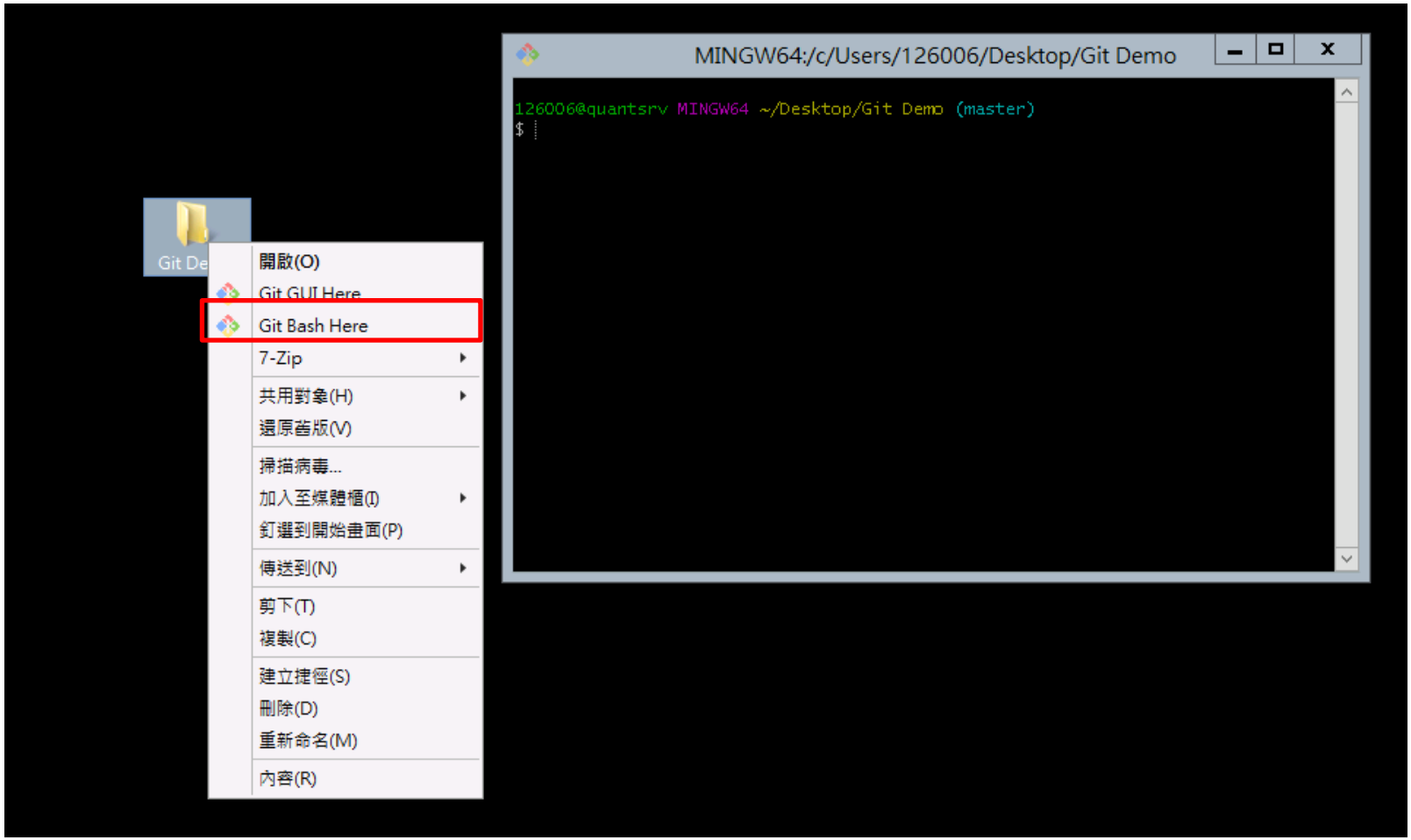
Git操作介紹

以RND_Calibration上版為例

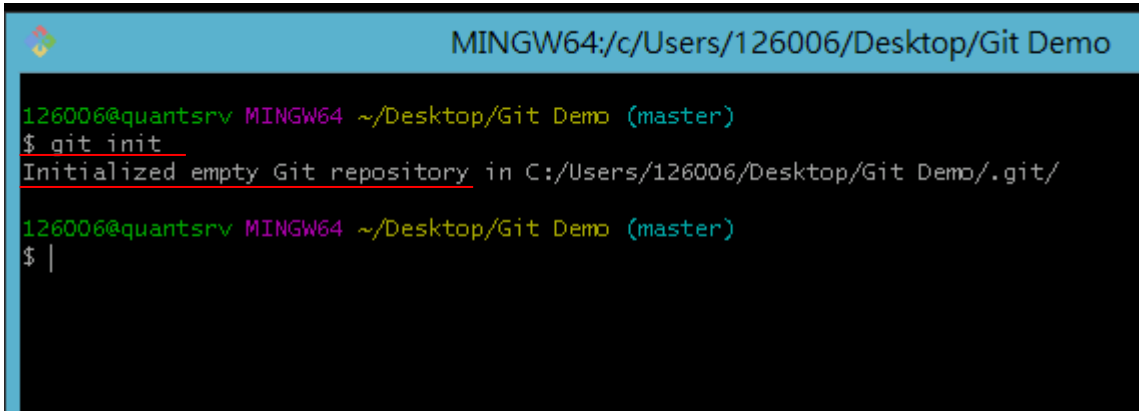
Hank

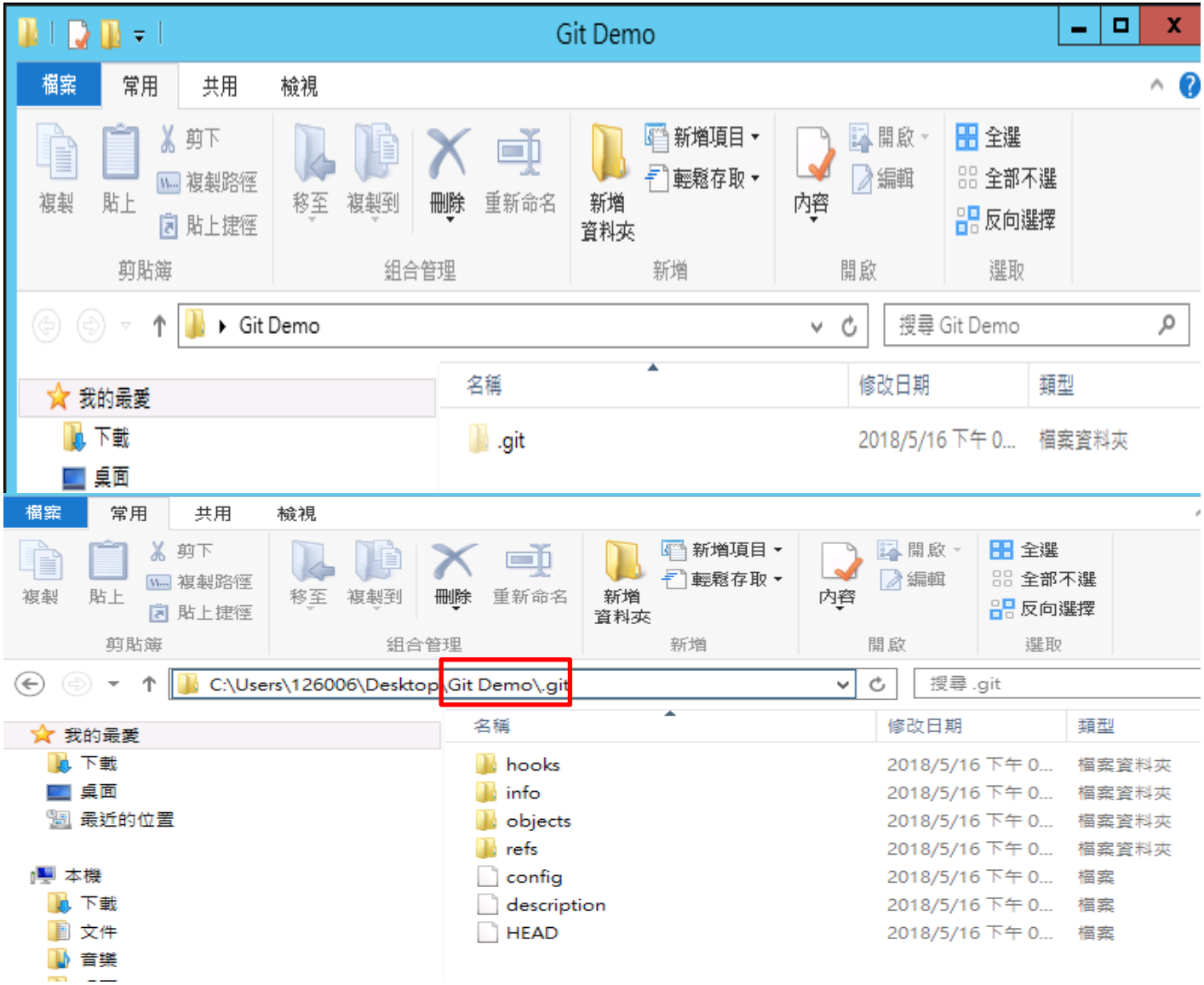
2018/05/18

Create a Git repository



Create an Empty Git repository




Git Demo
檔案
常用
共用
檢視
複製
貼上
剪下
複製路徑
貼上捷徑
剪貼簿
移至
複製到
刪除
重新命名
組合管理
新增資料夾
新增項目
輕鬆存取
新增
內容
開啟
編輯
開啟
全選
全部不選
反向選擇
選取
Git Demo
搜尋 Git Demo
我的最愛
下載
桌面
名稱
修改日期
類型
.git
2018/5/16 下午 0...
檔案資料夾
檔案
常用
共用
檢視
複製
貼上
剪下
複製路徑
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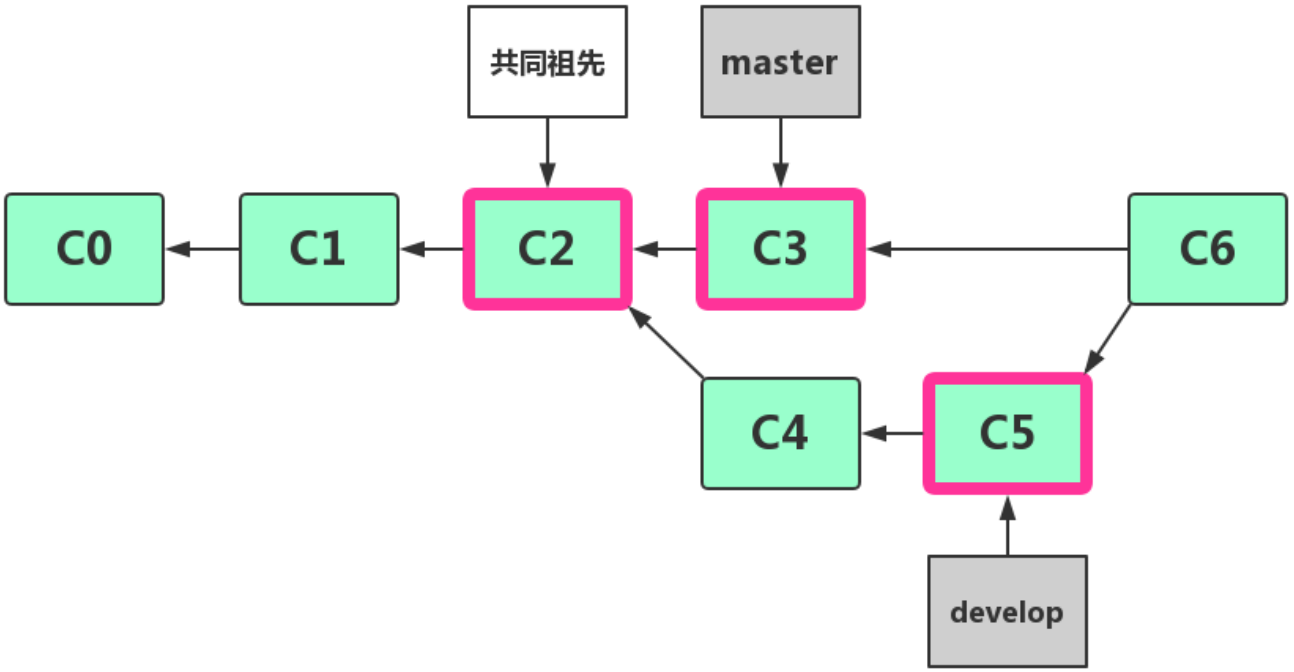
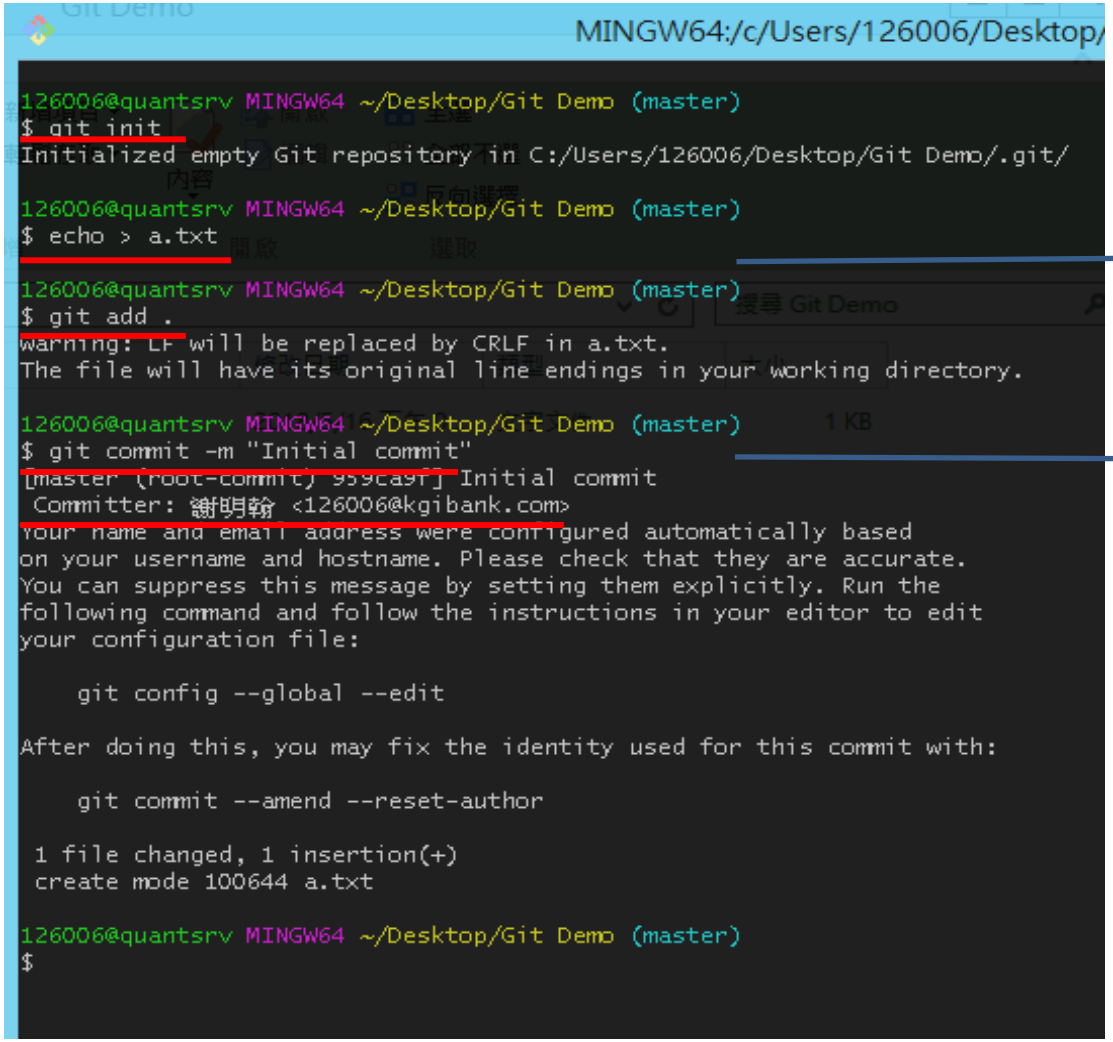
新增
內容
開啟
編輯
開啟
全選
全部不選
反向選擇
選取
C:\Users\126006\Desktop\Git Demo\.git
搜尋 .git
我的最愛
下載
桌面
最近的位置
本機
下載
文件
音樂
名稱
修改日期
類型
hooks
info
objects
refs
config
description
HEAD
2018/5/16 下午 0...
檔案資料夾
檔案

Git branch



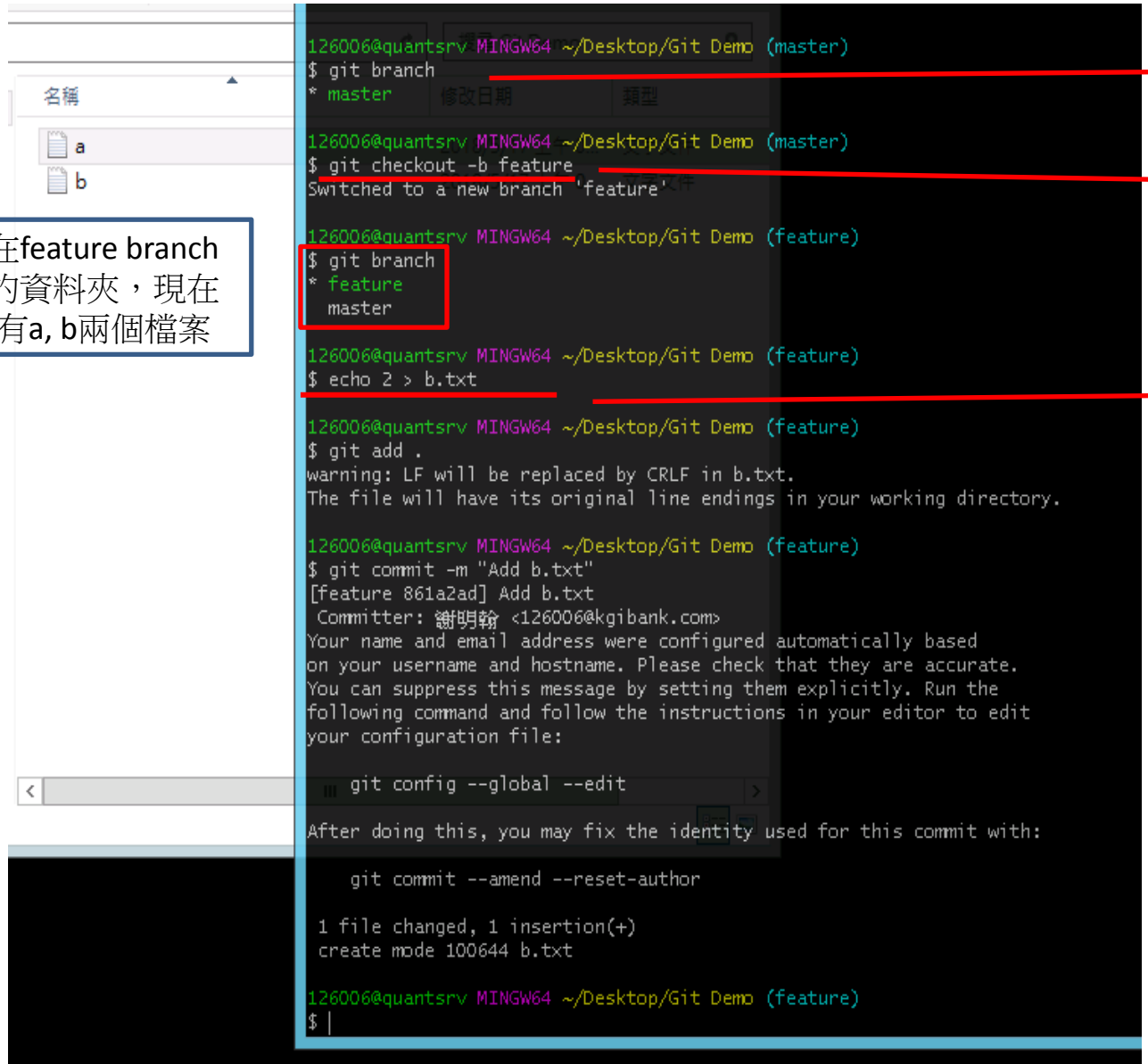
Git 新增檔案



新增一個txt檔

告訴Git server提交這次修改

Git 新增branch



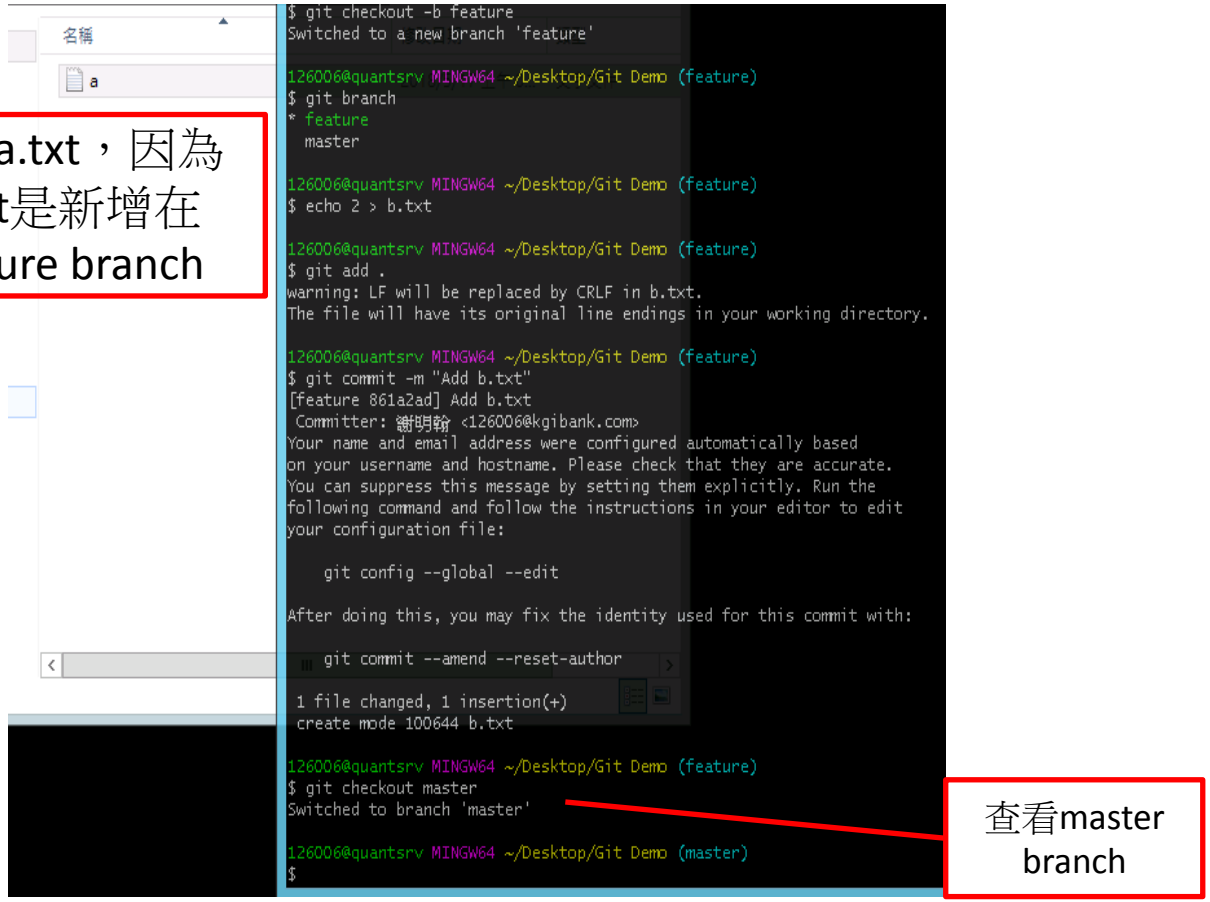
在feature branch的資料夾，現在有a, b兩個檔案

原先只有master branch

新增feature branch

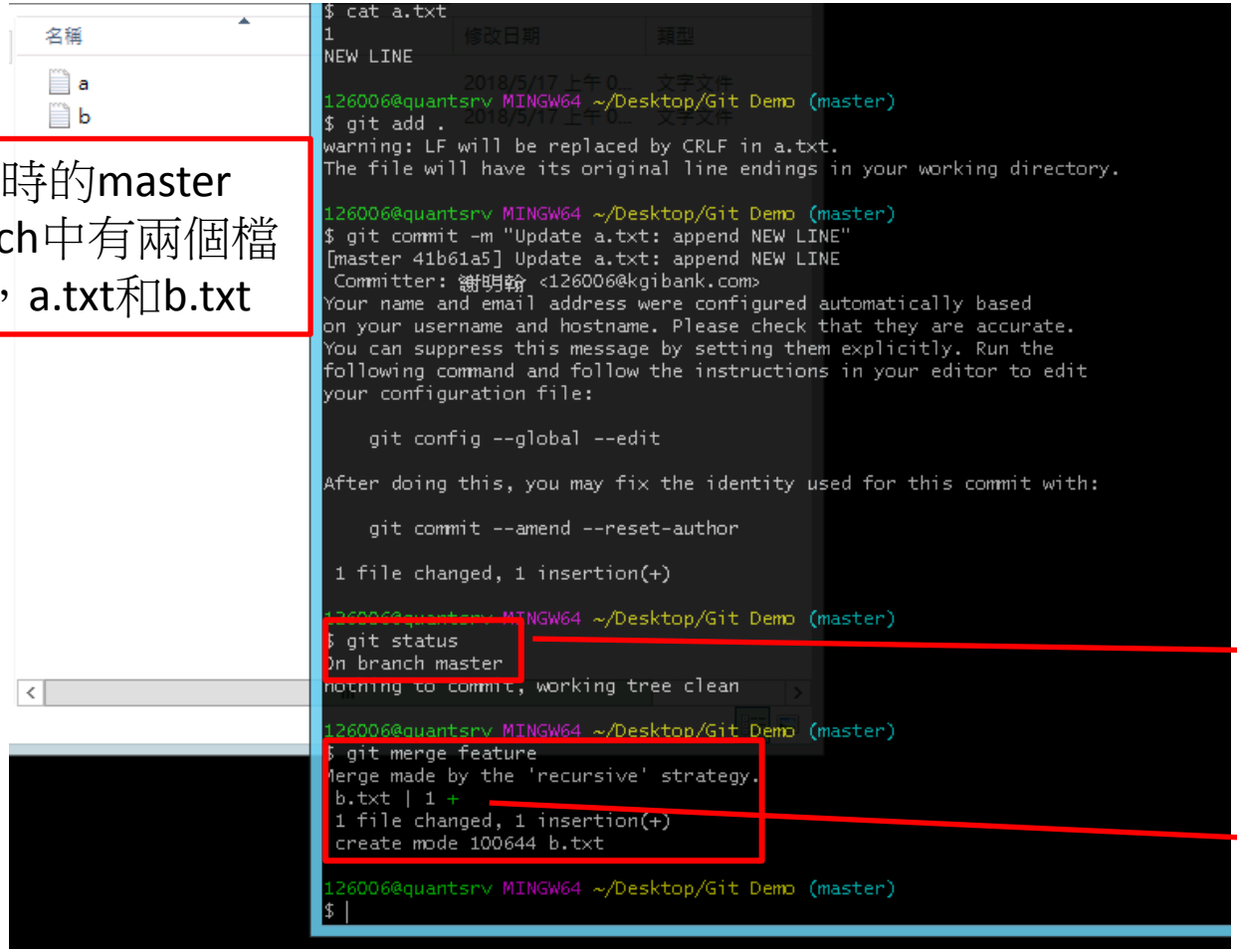
在feature branch新增一個b.txt

- 在此同時的master branch



(新增一枝branch時，新branch會將master branch內容全部繼承)

Git merge branch

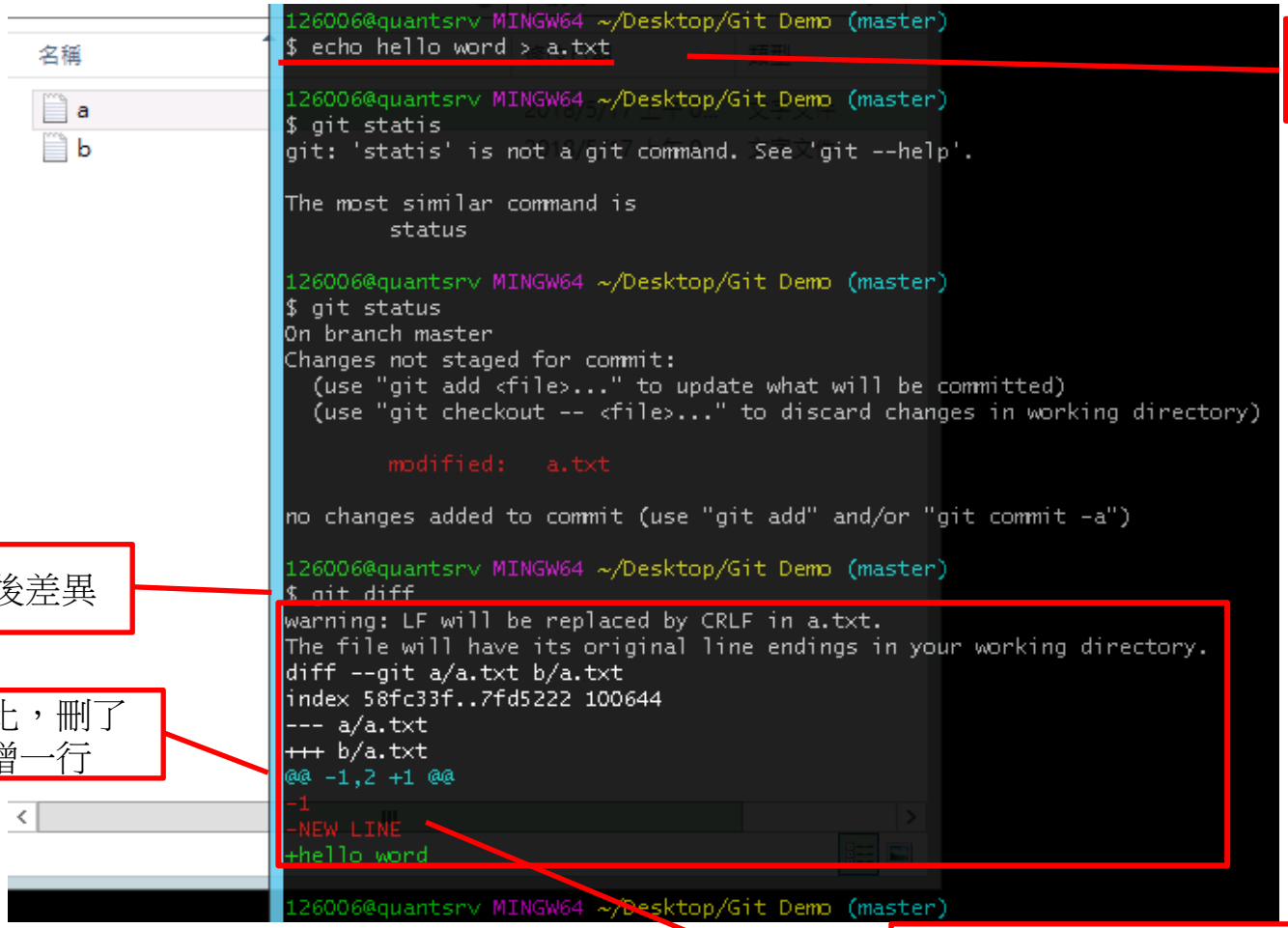


此時的master branch中有兩個檔案，a.txt和b.txt

在merge之前，先確保在不同branch上

相較之前的master branch，現在的master branch多了b.txt檔案

Git檔案修改



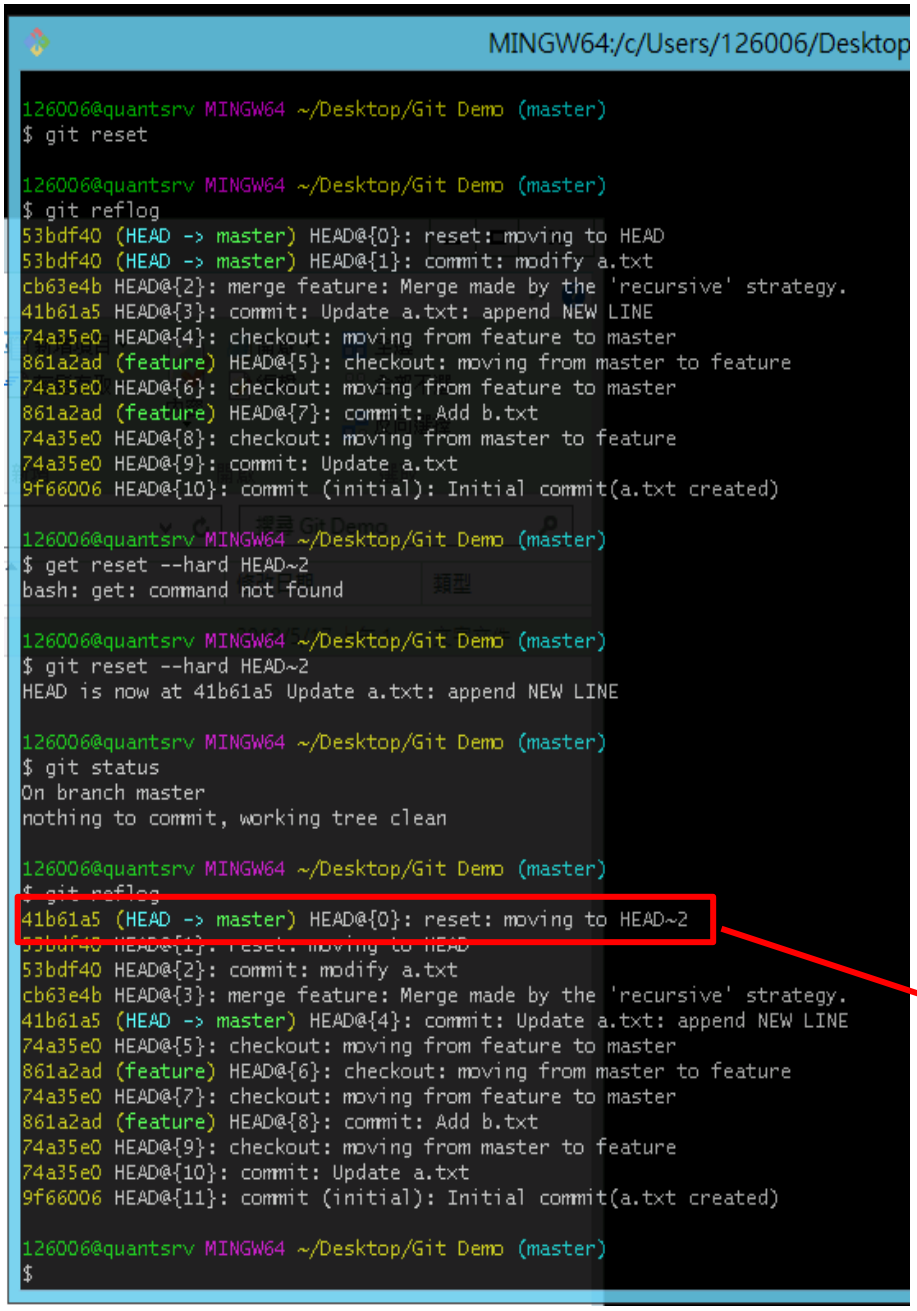
將a.txt內容修改為hello word

查看檔案前後差異

跟原先相比，刪了一行、新增一行

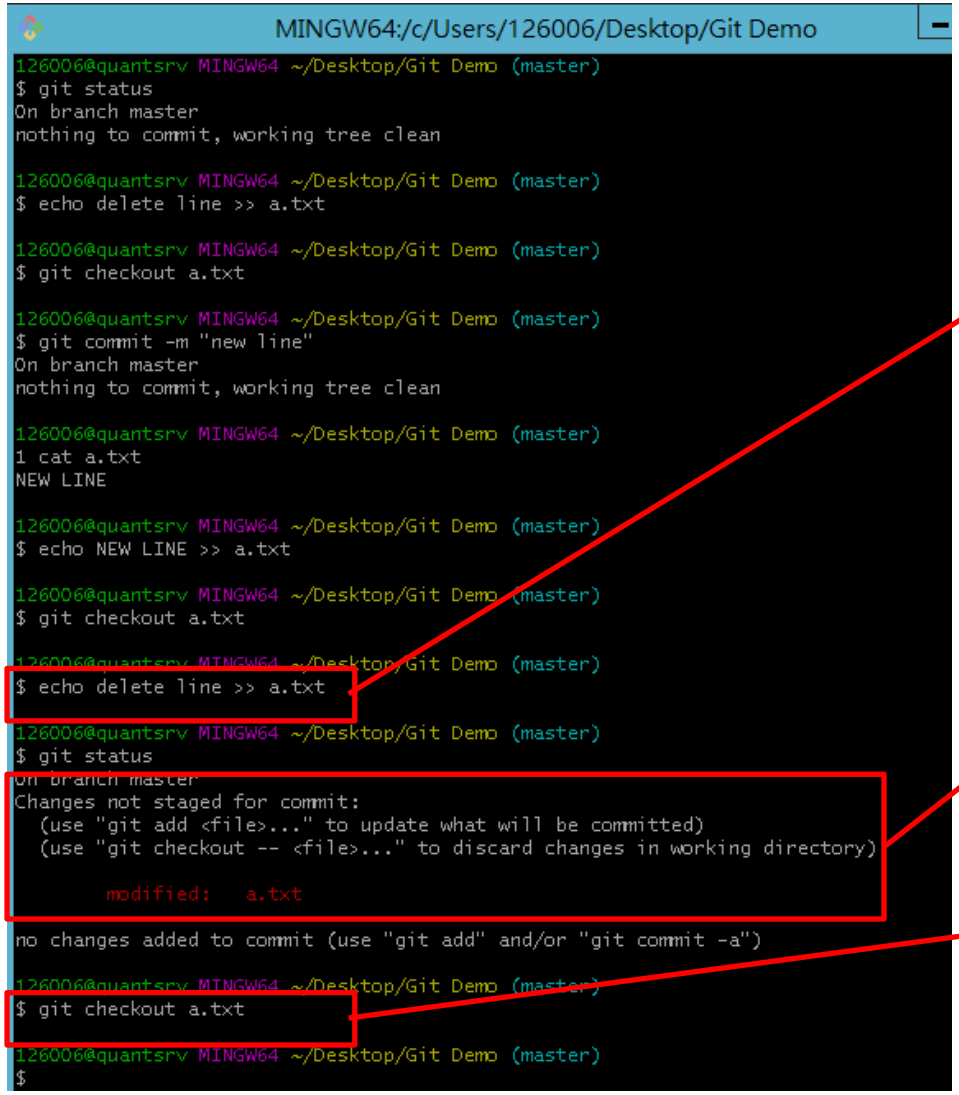
Git告訴我們，少了1、NEW LINE，多了hello word

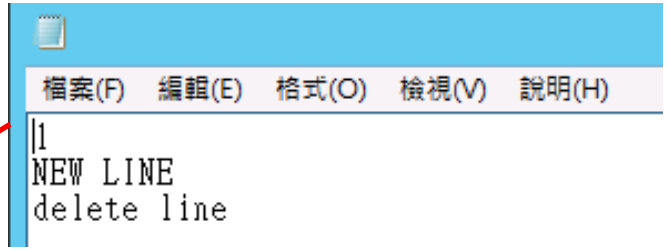
Git檔案還原I(after commit)



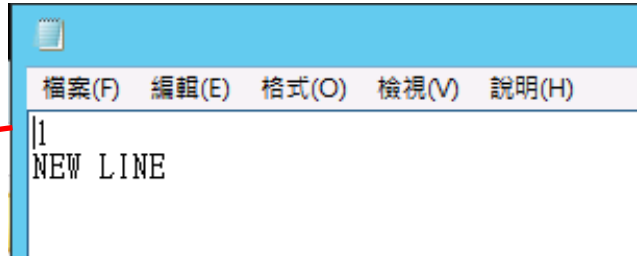
實際上，這種方式只是將指標在指回去而已，過往的操作紀錄依舊存留在Git的log中

Git檔案還原 II(before add)

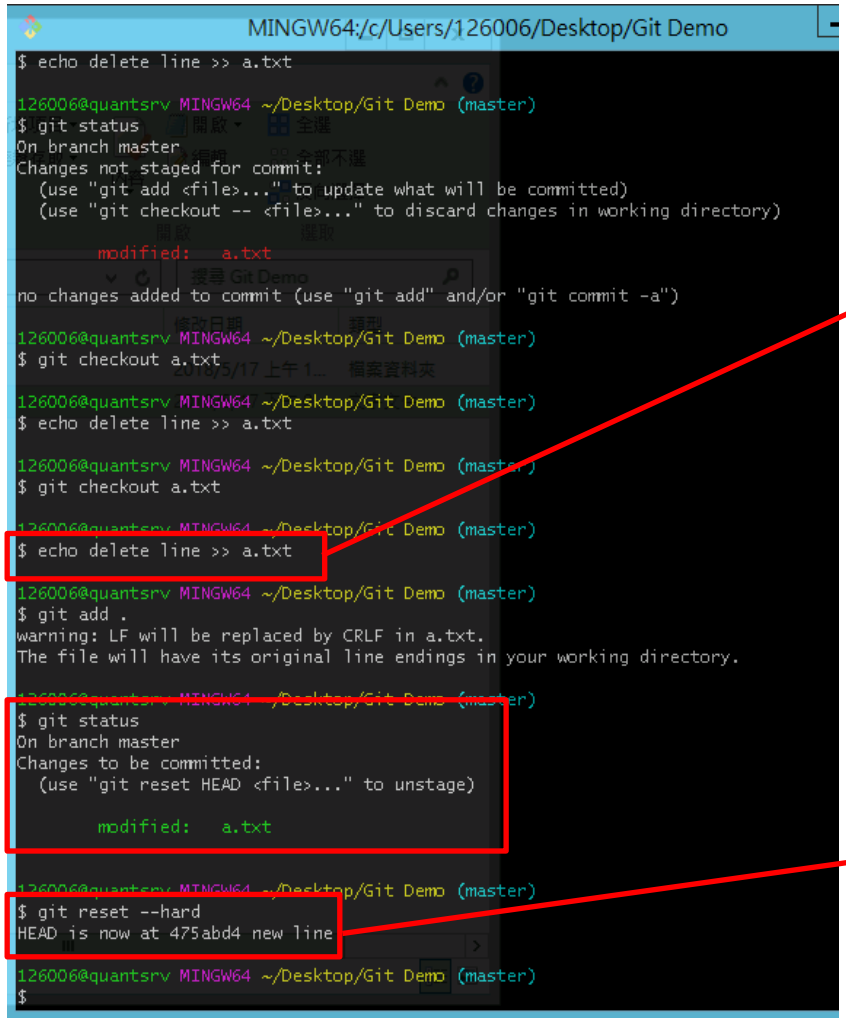


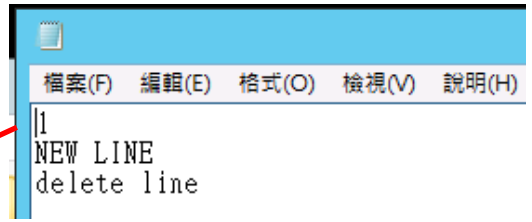


沒有add也沒有commit

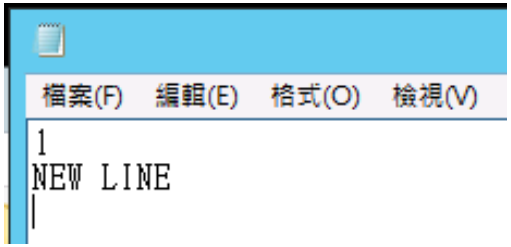


Git檔案還原 III(before commit)

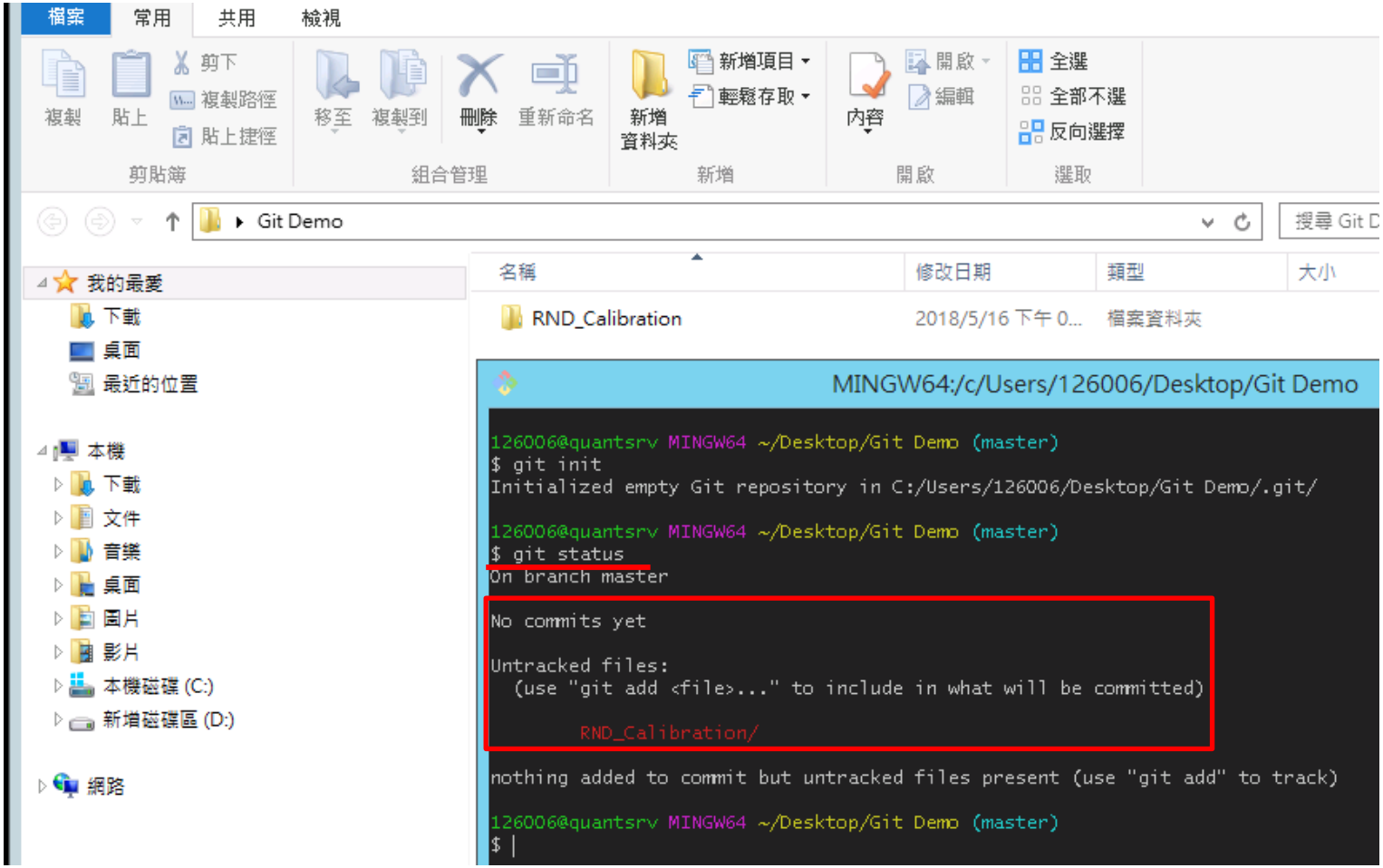


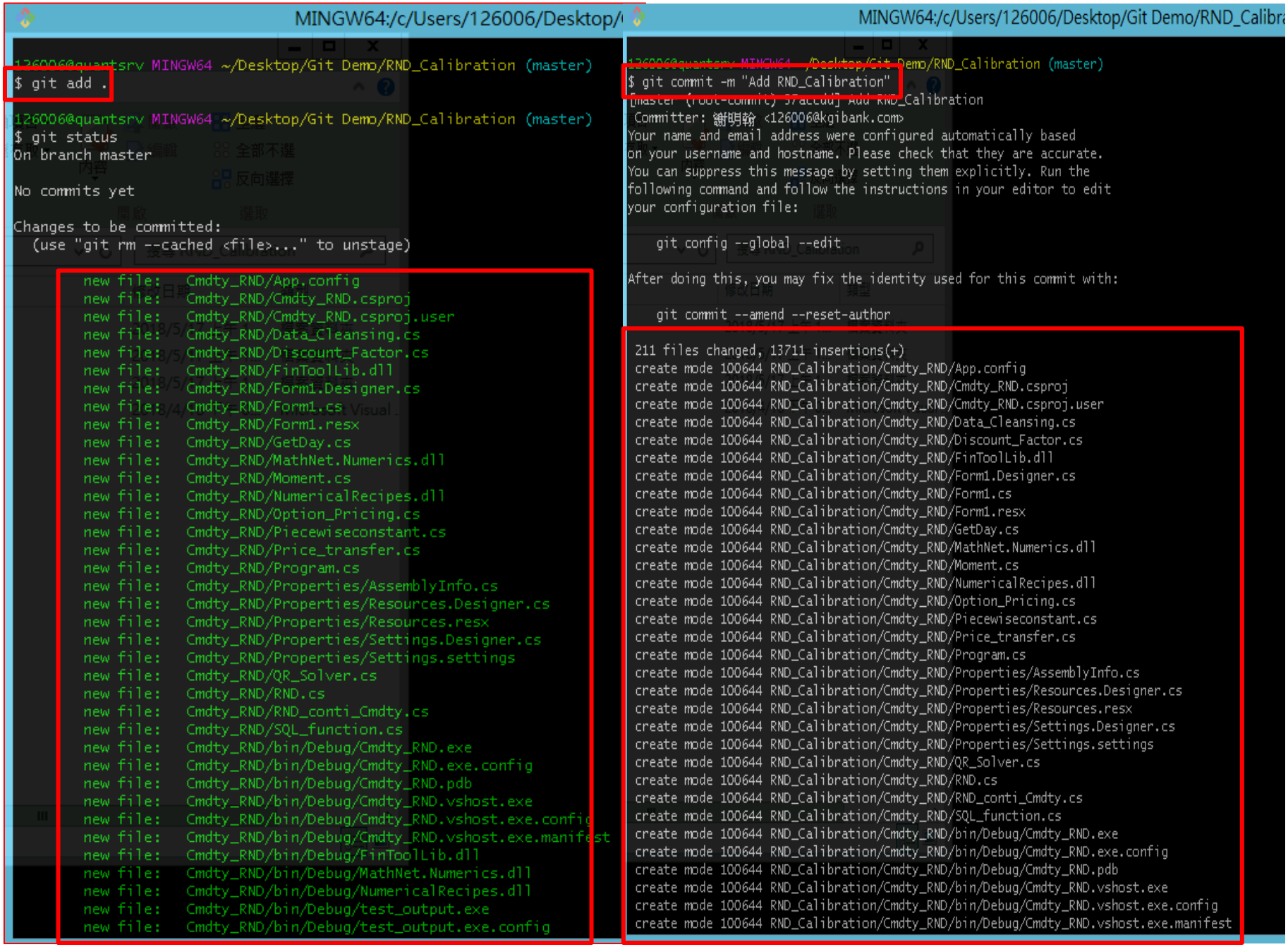


利用reset –hard指令還原

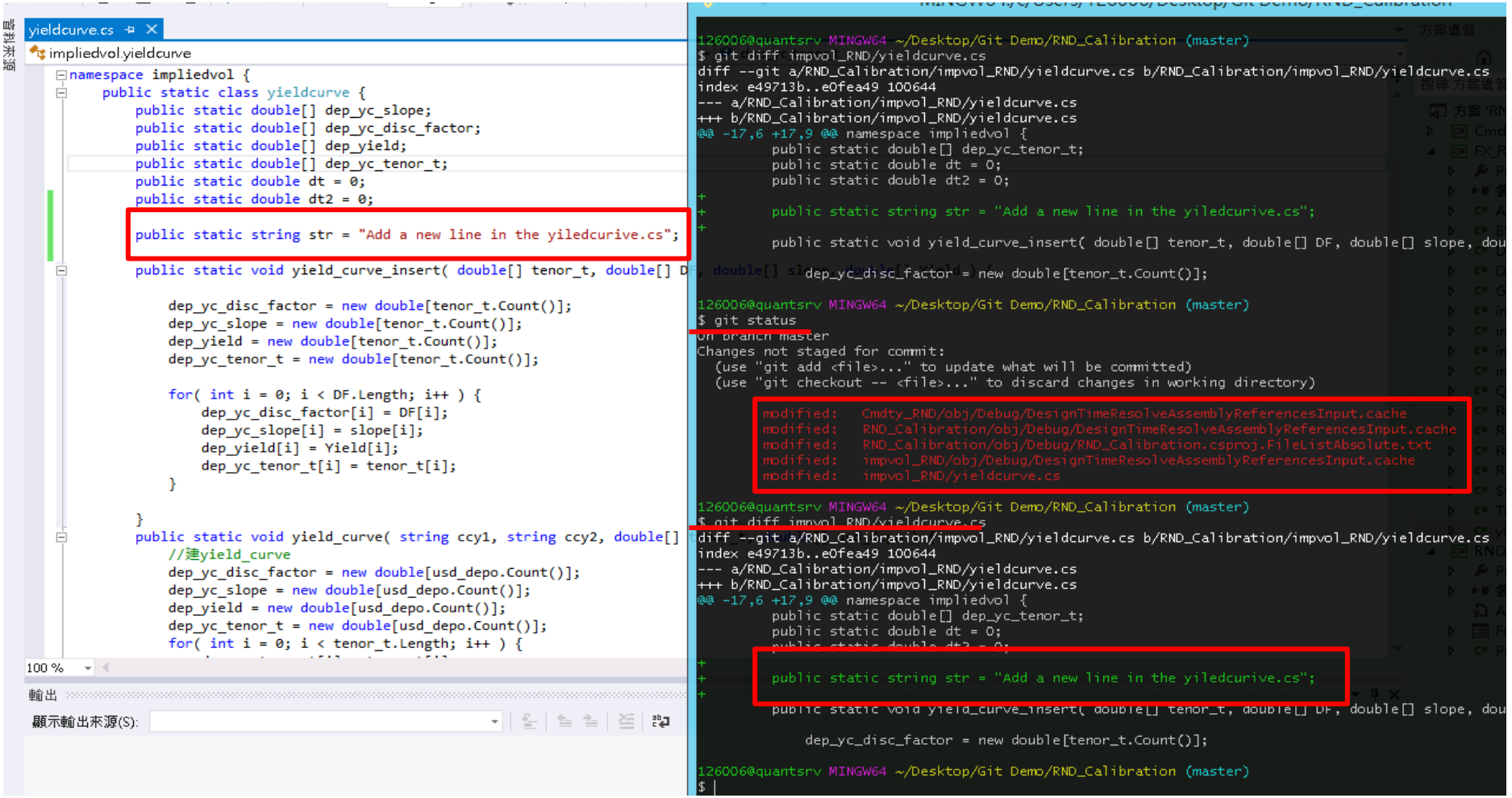


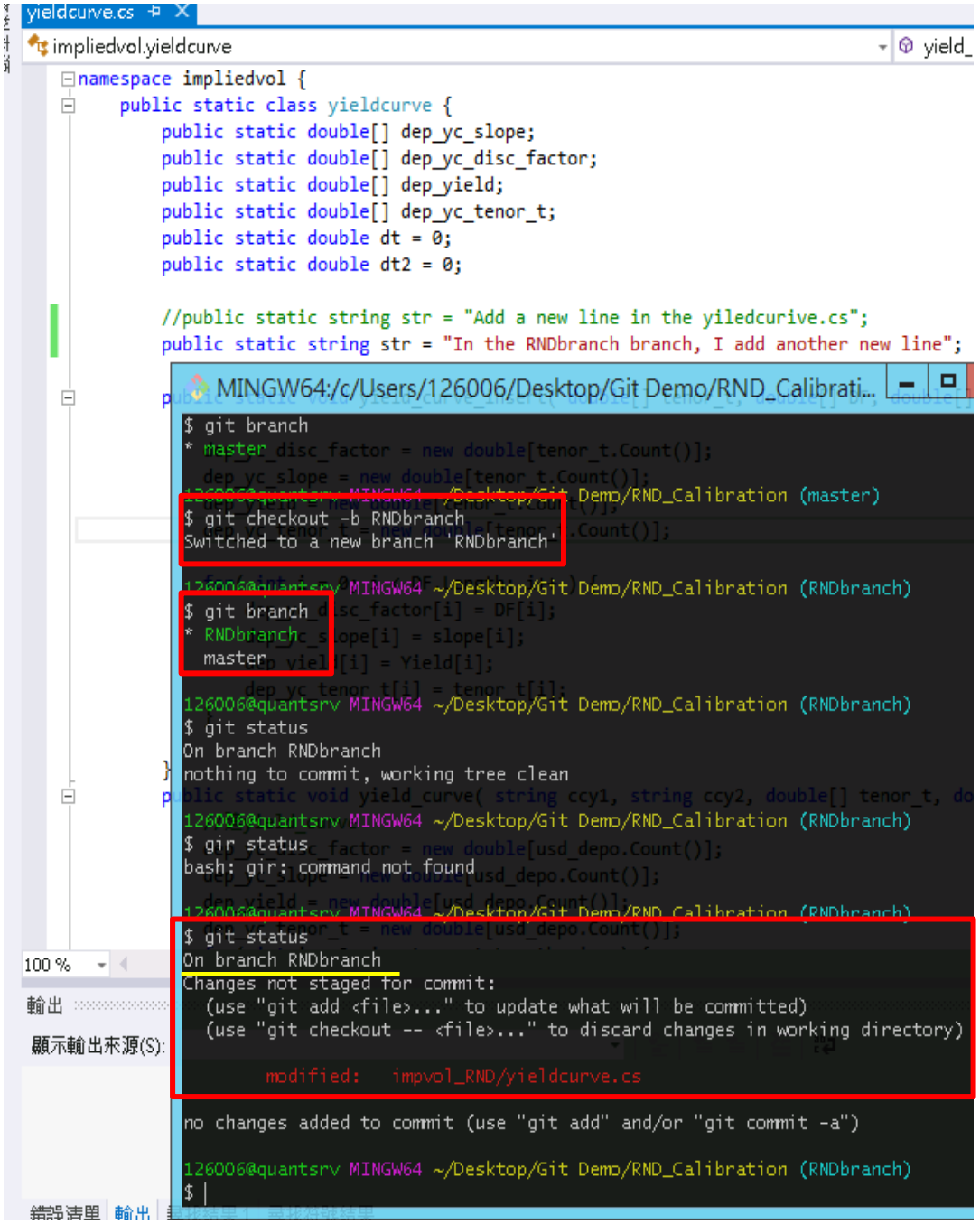
RND_Calibration上版



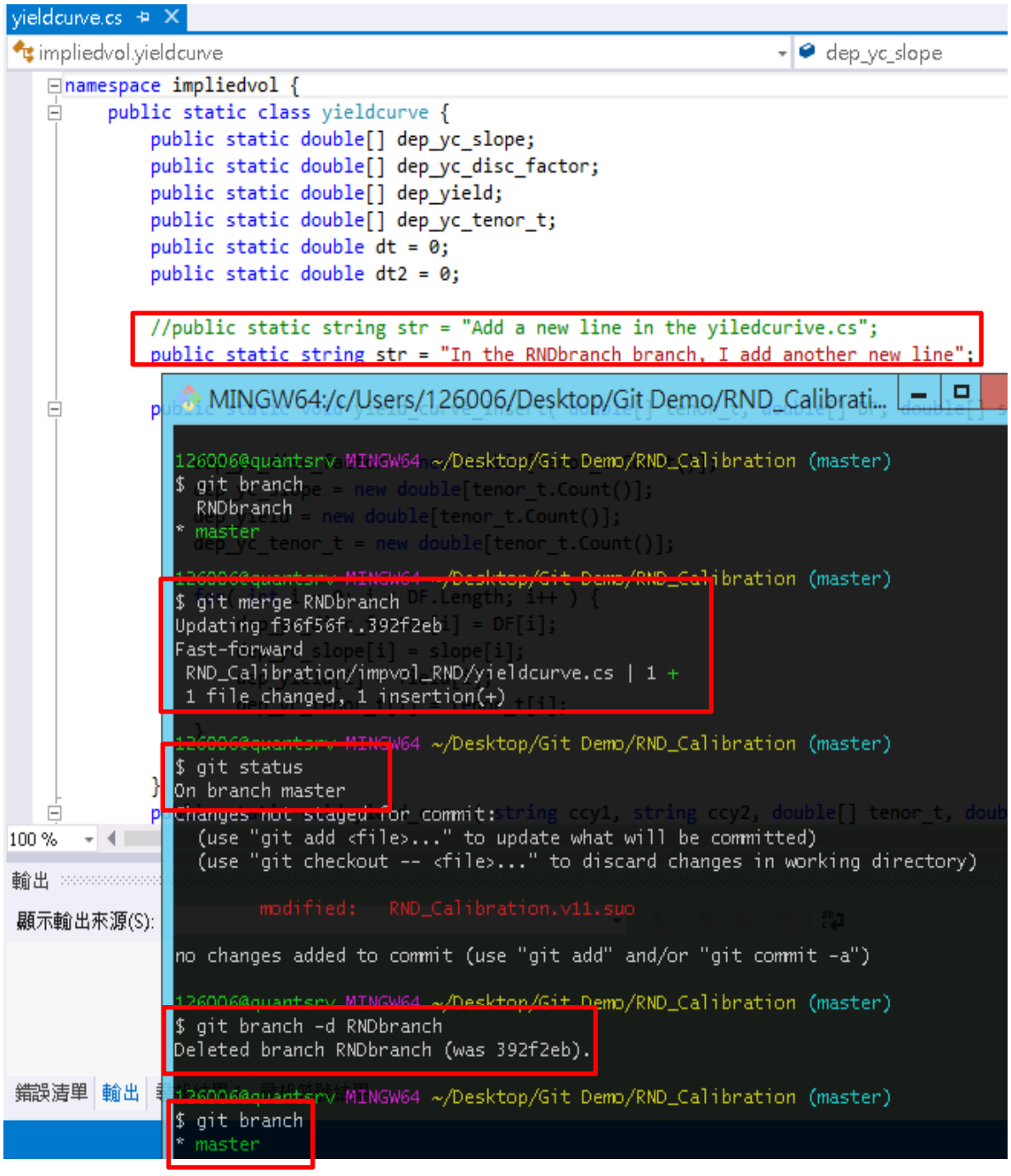

MINGW64:/c/Users/126006/Desktop/
126006@quantsrv MINGW64 ~/Desktop/Git Demo/RND_Calibration (master)
$ git add .
126006@quantsrv MINGW64 ~/Desktop/Git Demo/RND_Calibration (master)
$ git status
On branch master
No commits yet
Changes to be committed:
(use "git rm --cached <file>..." to unstage)
new file: Cmdty_RND/App.config
new file: Cmdty_RND/Cmdty_RND.csproj
new file: Cmdty_RND/Cmdty_RND.csproj.user
new file: Cmdty_RND/Data_Cleansing.cs
new file: Cmdty_RND/Discount_Factor.cs
new file: Cmdty_RND/FinToolLib.dll
new file: Cmdty_RND/Form1.Designer.cs
new file: Cmdty_RND/Form1.cs
new file: Cmdty_RND/Form1.resx
new file: Cmdty_RND/GetDay.cs
new file: Cmdty_RND/MathNet.Numerics.dll
new file: Cmdty_RND/Moment.cs
new file: Cmdty_RND/NumericalRecipes.dll
new file: Cmdty_RND/Option_Pricing.cs
new file: Cmdty_RND/Piecewiseconstant.cs
new file: Cmdty_RND/Price_transfer.cs
new file: Cmdty_RND/Program.cs
new file: Cmdty_RND/Properties/AssemblyInfo.cs
new file: Cmdty_RND/Properties/Resources.Designer.cs
new file: Cmdty_RND/Properties/Resources.resx
new file: Cmdty_RND/Properties/Settings.Designer.cs
new file: Cmdty_RND/Properties/Settings.settings
new file: Cmdty_RND/QR_Solver.cs
new file: Cmdty_RND/RND.cs
new file: Cmdty_RND/RND_conti_Cmdty.cs
new file: Cmdty_RND/SQL_function.cs
new file: Cmdty_RND/bin/Debug/Cmdty_RND.exe
new file: Cmdty_RND/bin/Debug/Cmdty_RND.exe.config
new file: Cmdty_RND/bin/Debug/Cmdty_RND.pdb
new file: Cmdty_RND/bin/Debug/Cmdty_RND.vshost.exe
new file: Cmdty_RND/bin/Debug/Cmdty_RND.vshost.exe.config
new file: Cmdty_RND/bin/Debug/Cmdty_RND.vshost.exe.manifest
new file: Cmdty_RND/bin/Debug/FinToolLib.dll
new file: Cmdty_RND/bin/Debug/MathNet.Numerics.dll
new file: Cmdty_RND/bin/Debug/NumericalRecipes.dll
new file: Cmdty_RND/bin/Debug/test_output.exe
new file: Cmdty_RND/bin/Debug/test_output.exe.config
MINGW64:/c/Users/126006/Desktop/Git Demo/RND_Calibra
$ git commit -m "Add RND_Calibration"
[master (root-commit) 37acdd] Add RND_Calibration
Committer: 謝明翰 <126006@kgibank.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
git config --global --edit
After doing this, you may fix the identity used for this commit with:
git commit --amend --reset-author
211 files changed, 13711 insertions(+)
create mode 100644 RND_Calibration/Cmdty_RND/App.config
create mode 100644 RND_Calibration/Cmdty_RND/Cmdty_RND.csproj
create mode 100644 RND_Calibration/Cmdty_RND/Cmdty_RND.csproj.user
create mode 100644 RND_Calibration/Cmdty_RND/Data_Cleansing.cs
create mode 100644 RND_Calibration/Cmdty_RND/Discount_Factor.cs
create mode 100644 RND_Calibration/Cmdty_RND/FinToolLib.dll
create mode 100644 RND_Calibration/Cmdty_RND/Form1.Designer.cs
create mode 100644 RND_Calibration/Cmdty_RND/Form1.cs
create mode 100644 RND_Calibration/Cmdty_RND/Form1.resx
create mode 100644 RND_Calibration/Cmdty_RND/GetDay.cs
create mode 100644 RND_Calibration/Cmdty_RND/MathNet.Numerics.dll
create mode 100644 RND_Calibration/Cmdty_RND/Moment.cs
create mode 100644 RND_Calibration/Cmdty_RND/NumericalRecipes.dll
create mode 100644 RND_Calibration/Cmdty_RND/Option_Pricing.cs
create mode 100644 RND_Calibration/Cmdty_RND/Piecewiseconstant.cs
create mode 100644 RND_Calibration/Cmdty_RND/Price_transfer.cs
create mode 100644 RND_Calibration/Cmdty_RND/Program.cs
create mode 100644 RND_Calibration/Cmdty_RND/Properties/AssemblyInfo.cs
create mode 100644 RND_Calibration/Cmdty_RND/Properties/Resources.Designer.cs
create mode 100644 RND_Calibration/Cmdty_RND/Properties/Resources.resx
create mode 100644 RND_Calibration/Cmdty_RND/Properties/Settings.Designer.cs
create mode 100644 RND_Calibration/Cmdty_RND/Properties/Settings.settings
create mode 100644 RND_Calibration/Cmdty_RND/QR_Solver.cs
create mode 100644 RND_Calibration/Cmdty_RND/RND.cs
create mode 100644 RND_Calibration/Cmdty_RND/RND_conti_Cmdty.cs
create mode 100644 RND_Calibration/Cmdty_RND/SQL_function.cs
create mode 100644 RND_Calibration/Cmdty_RND/bin/Debug/Cmdty_RND.exe
create mode 100644 RND_Calibration/Cmdty_RND/bin/Debug/Cmdty_RND.exe.config
create mode 100644 RND_Calibration/Cmdty_RND/bin/Debug/Cmdty_RND.pdb
create mode 100644 RND_Calibration/Cmdty_RND/bin/Debug/Cmdty_RND.vshost.exe
create mode 100644 RND_Calibration/Cmdty_RND/bin/Debug/Cmdty_RND.vshost.exe.config
create mode 100644 RND_Calibration/Cmdty_RND/bin/Debug/Cmdty_RND.vshost.exe.manifest

可以從Git中發現被修改的檔案以及修改內容





這邊，我新增了另一個新分支RNDbranch，在RNDbranch中在yieldcurve.cs檔案中在做新的修改



回到master branch後，將兩支branch做合併，會發現在RNDbranch所做的修改會同步到master branch中，最後再把RNDbranch刪除

- 多人共同開發同一專案時，切記要先new branch以確保開發過程中不互相衝突
- 新的branch和舊branch合併後，若不再需要，要將branch刪除，以免保留太多分支
- Git log檔最多保留90天，若想回復90天前資料，Git無法達成
- 每次對程式做完修改後，記得要在Git上依序下add、commit指令
- commit指令一定要加解釋，方便日後管理