

Git Tasks

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Exercise 1:

```
MINGW64:/c:/Users/Imad/Desktop/gitfolder/gitexercise1
Imad@DESKTOP-PS4FS3S MINGW64 ~
$ cd Desktop

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop
$ cd gitfolder

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ mkdir gitexercise1

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ cd gitexercise1

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise1
$ git init
Initialized empty Git repository in C:/Users/Imad/Desktop/gitfolder/gitexercise1/.git/

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise1 (main)
$ nano index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise1 (main)
$ git add .
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise1 (main)
$ git commit -m "Initial Message."
[main (root-commit) 7841b9f] Initial Message.
1 file changed, 1 insertion(+)
create mode 100644 index.html
```

Exercise 2:

```
MINGW64:/c/Users/Imad/Desktop/gitfolder/gitexercise2

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise1 (main)
$ cd ..

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ mkdir gitexercise2

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ cd gitexercise2

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise2
$ git init
Initialized empty Git repository in C:/Users/Imad/Desktop/gitfolder/gitexercise2/.git/

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise2 (main)
$ nano index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise2 (main)
$ nano about.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise2 (main)
$ git add index.html
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise2 (main)
$ git commit -m "File index.html added"
[main (root-commit) 3c2d4c5] File index.html added
1 file changed, 2 insertions(+)
create mode 100644 index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise2 (main)
$ |
```

Exercise 3:

```
MINGW64:/c/Users/Imad/Desktop/gitfolder/gitexercise3
Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise2 (main)
$ cd ..

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ mkdir gitexercise3

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ cd gitexercise3

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise3
$ git init
Initialized empty Git repository in C:/Users/Imad/Desktop/gitfolder/gitexercise3/.git/

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise3 (main)
$ nano index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise3 (main)
$ git add .
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise3 (main)
$ git commit -m "adding index.html"
[main (root-commit) 23a71f5] adding index.html
1 file changed, 1 insertion(+)
create mode 100644 index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise3 (main)
$ nano about.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise3 (main)
$ git add .
warning: LF will be replaced by CRLF in about.html.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise3 (main)
$ git commit --amend -m "Adding index.html and about.html"
[main c6e051f] Adding index.html and about.html
Date: Thu Jun 10 01:13:33 2021 -0500
2 files changed, 2 insertions(+)
create mode 100644 about.html
create mode 100644 index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/gitexercise3 (main)
$ |
```

Exercise 4:

```
MINGW64:/c/Users/Imad/Desktop/gitfolder/ex4
Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ cd ..

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop
$ cd gitfolder

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ mkdir ex4

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ cd ex4

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex4
$ git init
Initialized empty Git repository in C:/Users/Imad/Desktop/gitfolder/ex4/.git/

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex4 (main)
$ nano .gitignore

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex4 (main)
$ |
```

```
MINGW64:/c/Users/Imad/Desktop/gitfolder/ex4
GNU nano 5.6.1 .gitignore Modified
*.exe
*.o
*.jar
/libraries/

^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit      ^R Read File  ^\ Replace    ^U Paste       ^J Justify    ^_ Go To Line
```

Exercise 5:

```
MINGW64:/c/Users/Imad/Desktop/gitfolder/ex5
Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex4 (main)
$ cd ..

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ mkdir ex5

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ cd ex5

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex5
$ git init
Initialized empty Git repository in C:/Users/Imad/Desktop/gitfolder/ex5/.git/

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex5 (main)
$ nano mycode.py

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex5 (main)
$ git add .
warning: LF will be replaced by CRLF in mycode.py.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex5 (main)
$ git commit -m "Initial commit"
[main (root-commit) b38dd39] Initial commit
1 file changed, 1 insertion(+)
create mode 100644 mycode.py

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex5 (main)
$ nano mycode.py

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex5 (main)
$ git add .
warning: LF will be replaced by CRLF in mycode.py.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex5 (main)
$ git stash
Saved working directory and index state WIP on main: b38dd39 Initial commit

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex5 (main)
$ git stash list
stash@{0}: WIP on main: b38dd39 Initial commit

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex5 (main)
$ |
```


Exercise 6:

```
MINGW64:/c/Users/Imad/Desktop/gitfolder/ex6

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex5 (main)
$ cd ..

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ mkdir ex6

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ cd ex6

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex6
$ git init
Initialized empty Git repository in C:/Users/Imad/Desktop/gitfolder/ex6/.git/

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex6 (main)
$ nano mycode.py

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex6 (main)
$ git add .
warning: LF will be replaced by CRLF in mycode.py.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex6 (main)
$ git commit -m "First Commit"
[main (root-commit) 11b6656] First Commit
1 file changed, 1 insertion(+)
create mode 100644 mycode.py

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex6 (main)
$ nano mycode.py

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex6 (main)
$ git add .
warning: LF will be replaced by CRLF in mycode.py.
```

```
MINGW64:/c/Users/Imad/Desktop/gitfolder/ex6

warning: LF will be replaced by CRLF in mycode.py.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex6 (main)
$ git commit -m "Second Commit"
[main 7c2a9d1] Second Commit
1 file changed, 1 insertion(+)

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex6 (main)
$ nano mycode.py

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex6 (main)
$ git add .
warning: LF will be replaced by CRLF in mycode.py.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex6 (main)
$ git commit -m "Third Commit"
[main 2a90aa2] Third Commit
1 file changed, 1 insertion(+)

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex6 (main)
$ git reset --soft HEAD~1

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex6 (main)
$ git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   mycode.py

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex6 (main)
$ |
```

Exercise 7:

```
MINGW64:/c:/Users/Imad/Desktop/gitfolder/ex7

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ cd ex7

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex7
$ git init
Initialized empty Git repository in C:/Users/Imad/Desktop/gitfolder/ex7/.git/

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex7 (main)
$ nano mycode.py

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex7 (main)
$ git add .
warning: LF will be replaced by CRLF in mycode.py.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex7 (main)
$ git commit -m "Commit no. 1"
>
[main (root-commit) 6929027] Commit no. 1
1 file changed, 1 insertion(+)
create mode 100644 mycode.py

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex7 (main)
$ nano mycode.py

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex7 (main)
$ git add .
warning: LF will be replaced by CRLF in mycode.py.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex7 (main)
$ git commit -m "Commit no. 2"
[main 4f51064] Commit no. 2
1 file changed, 1 insertion(+), 1 deletion(-)

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex7 (main)
$ git reset --hard HEAD~1
HEAD is now at 6929027 Commit no. 1

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex7 (main)
$ |
```

Exercise 8:

```
MINGW64:/c/Users/Imad/Desktop/gitfolder/ex8

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex7 (main)
$ cd ..

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ mkdir ex8

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder
$ cd ex8

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex8
$ git init
Initialized empty Git repository in C:/Users/Imad/Desktop/gitfolder/ex8/.git/

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex8 (main)
$ nano index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex8 (main)
$ git add .
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex8 (main)
$ git commit -m "First commit"
[main (root-commit) ffb63c1] First commit
1 file changed, 1 insertion(+)
create mode 100644 index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex8 (main)
$ git branch my-feature

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex8 (main)
$ git checkout my-feature
```

```
MINGW64:/c/Users/Imad/Desktop/gitfolder/ex8

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex8 (main)
$ git checkout my-feature
Switched to branch 'my-feature'

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex8 (my-feature)
$ nano aboutus.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex8 (my-feature)
$ git add .
warning: LF will be replaced by CRLF in aboutus.html.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex8 (my-feature)
$ git commit -m "my feature commit"
[my-feature 4b7b1b2] my feature commit
1 file changed, 1 insertion(+)
create mode 100644 aboutus.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex8 (my-feature)
$ git checkout main
Switched to branch 'main'

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex8 (main)
$ git merge my-feature
Updating ffb63c1..4b7b1b2
Fast-forward
 aboutus.html | 1 +
1 file changed, 1 insertion(+)
create mode 100644 aboutus.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex8 (main)
$ |
```


Exercise 9:

```
MINGW64:/c/Users/Imad/Desktop/gitfolder/ex9
$ cd ex9

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9
$ git init
Initialized empty Git repository in C:/Users/Imad/Desktop/gitfolder/ex9/.git/

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main)
$ nano index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main)
$ git add .
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main)
$ git commit -m "main commit"
[main (root-commit) d63f8e2] main commit
1 file changed, 1 insertion(+)
create mode 100644 index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main)
$ git branch myfeature

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main)
$ git checkout myfeature
Switched to branch 'myfeature'

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (myfeature)
$ nano about.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (myfeature)
$ nano index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (myfeature)
$ git add .
```

```
MINGW64:/c/Users/Imad/Desktop/gitfolder/ex9
Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (myfeature)
$ git add .
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in about.html.
The file will have its original line endings in your working directory

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (myfeature)
$ git commit -m "myfeature commit"
[myfeature bffba1c] myfeature commit
2 files changed, 2 insertions(+)
create mode 100644 about.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (myfeature)
$ git checkout main
Switched to branch 'main'

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main)
$ nano index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main)
$ git add .

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main)
$ git commit -m "second main commit"
[main 28d770f] second main commit
1 file changed, 1 insertion(+)

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main)
$ git merge myfeature
Auto-merging index.html
CONFLICT (content): Merge conflict in index.html
Automatic merge failed; fix conflicts and then commit the result.

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main|MERGING)
```

```
MINGW64; c:/Users/Imad/Desktop/gitfolder/ex9
Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main|MERGING)
$ git diff
diff --cc index.html
index fc36128,ab5e1b1..0000000
--- a/index.html
+++ b/index.html
@@@ -1,2 -1,2 +1,6 @@@
asodghaeog
++<<<<<< HEAD
+oosg54af5a6wf
+=====
+ gfolhuewgow
++>>>>>> myfeature

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main|MERGING)
$ nano index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main|MERGING)
$ nano index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main|MERGING)
$ git status
On branch main
You have unmerged paths.
(fix conflicts and run "git commit")
(use "git merge --abort" to abort the merge)

Changes to be committed:
  new file:   about.html

Unmerged paths:
  (use "git add <file>..." to mark resolution)
    both modified: index.html
```

```
Unmerged paths:
  (use "git add <file>..." to mark resolution)
    both modified: index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main|MERGING)
$ git commit
error: Committing is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'
hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.
U      index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main|MERGING)
$ git add index.html

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main|MERGING)
$ git commit
[main 34ab051] Merge branch 'myfeature'

Imad@DESKTOP-PS4FS3S MINGW64 ~/Desktop/gitfolder/ex9 (main)
$
```