Git exercises:

1a,

Code: git clone https://github.com/BI-DS/GRA-4152.git
Git log –graph
Output:

,

1b,
Code: git log -n 1 -- README.md
The date is: Date: Wed Aug 31 09:59:14 2022 +0200

1c,
Code: git show 71f261f8dbb09c828dfd2be1ad664a14b1fbc498
The commit message is:
+## Honor Code
+You are free to form study groups and may discuss homework in groups. However, each student must write down the solutions and code from scratch independently and must understand the solution well enough. It is a honor code violation to copy, refer to, or look at written or code solutions from a previous year or solutions posted online (inspired by the Stanford Honor Code).

2,
Code: touch .gitignore

I created a foo.py line inside gitignore. Than a foo.py file in my local folder. After the *git add*
., git commit, git push origin master commands the foo.py is not in my github repo and that
was the goal.

3,
a,
Code: git clone repo.git
Git stash

Output: Saved working directory and index state WIP on main: 738cb26 Update legal name
from Dong-hee Na to Donghee Na (#1165)

Comment:
The modification on the file disappears. The original version is visible in the folder.

b,
Code:
git log --all --oneline

```
738cb26 (HEAD -> main, origin/main, origin/HEAD) Update legal name from Dong-hee Na to Donghee Na (#1165)
cb39eca Use sentence case for titles (#1162)
5d27e91 Fix typos to follow style guide (#1163)
dbccd83 Add "Helping with the Developer's Guide" to documentarians column (#1164)
b70b763 Bump Sphinx to 7.2.5 (#1155)
f88487f Fix buildbot config issue URL
99fe52a Point to buildbot config repo rather than mailing list for adding a worker (#1156)
b66af5a Update dev guide with recent compiler and bytecode simplifications (#1154)
d994dff Document PGO builds (#1153)
689528c Rename Advanced Tools to Development Tools (#1149)
0eba99f Add a new coordinator for zh_CN (#1150)
dc0be4d Adding Codespaces Documentation (#1144)
d61215d Bump sphinx-lint from 0.6.7 to 0.6.8 (#1146)
ee22ad7 Bump sphinx from 7.0.1 to 7.1.1 (#1147)
1cb3c18 Add linting to CI via pre-commit (#987)
65ae4a8 Reviewing PRs: On GitHub the nosy list is called subscribers (#1143)
d6edccf Strip space from pasted text (#1142)
a5defb4 Update link to blurb documentation (#1137)
93c3ee7 Update planned 3.13.0 release date: 2024-10-01 (#1132)
:...skipping...
738cb26 (HEAD -> main, origin/main, origin/HEAD) Update legal name from Dong-hee Na to Donghee Na (#1165)
cb39eca Use sentence case for titles (#1162)
5d27e91 Fix typos to follow style guide (#1163)
dbccd83 Add "Helping with the Developer's Guide" to documentarians column (#1164)
b70b763 Bump Sphinx to 7.2.5 (#1155)
```

Comment:
Gives back the commit history for the repo.

c,
Code: git stash pop

Output:

```
n branch main
our branch is up to date with 'origin/main'.

hanges not staged for commit:
 (use "git add/rm <file>..." to update what will be committed)
 (use "git restore <file>..." to discard changes in working directory)
        deleted:    LICENSE

ntracked files:
 (use "git add <file>..." to include in what will be committed)
        .DS_Store

o changes added to commit (use "git add" and/or "git commit -a")
ropped refs/stash@{0} (5fa9a71e26b66e272977ced60feb056d53c707bb)
```

Comment:
Git stash pop can be useful if you do not want to work with the stashed modifications. For instance the original version of the project is more efficient than the modified one.

D,
Code: git stash drop stash@{0}

Response:
Dropped stash@{0} (9447780161b210e557eb7a39f717a0650c9c7e16)

A,
Code: modify
Git stash
modify
git commit

```
Auto-merging requirements.txt
CONFLICT (content): Merge conflict in requirements.txt
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Unmerged paths:
  (use "git restore --staged <file>..." to unstage)
  (use "git add <file>..." to mark resolution)
        both modified:    requirements.txt

no changes added to commit (use "git add" and/or "git commit -a")
The stash entry is kept in case you need it again.
```

The file is the same as after the 2nd modification before git commit.

```
≡ requirements.txt ! ✕

≡ requirements.txt
  1    Sphinx~=7.2.5
  2    furo>=2022.6.4
  3    jinja2
  4    sphinx-lint==0.6.8
  5    sphinx-notfound-page>=1.0.0
  6    sphinx_copybutton>=0.3.3
  7    sphinxext-opengraph>=0.7.1
  8    sphinxext-rediraffe
  9    New line
 10
```

4A,
Code: git branch my_test_branch
Git checkout my_test_branch
Git checkout master

```
M       git_exercise.docx
Switched to branch 'my_test_branch'
```

B,
Code: touch 4c.txt
Echo echo "Comment" >> 4c.txt
Git add 4c.txt
Git commit -m

C,
Code: git checkout master
Git merge my_test_branch

```
Updating 5adb19e..e476f15
Fast-forward
 4c.txt                 |   1 +
 git_exercise.docx | Bin 716006 -> 1831602 bytes
 2 files changed, 1 insertion(+)
 create mode 100644 4c.txt
```

5,
A,
Code:
Git clone repo.git
touch S1086781.txt
git add .
git commit -m "student id text"
git push origin master

Comment:
After forking the repo to my own account I cloned the repo to the local folders. Then I created the txt file and pushed into the forked repo. Finally I submitted a pull request to the original repo.