Homework Assignment #1:
An Exercise on Using Git

Due Time/Date

2:00PM Wednesday, March 1, 2023. Students enrolled late will be given an extension.

Note

The main purpose of this little exercise is for you to get familiar with the basics of the distributed version control system Git. Our TA will create an account for you on the Git server `https://gitlab.sdm.im.ntu.edu.tw` for this course.

Task Description

Do the following:

1. Install Git on your own machine (if it is not there yet) and configure it (command: `git config ...`) properly with your name and NTU email address, so that every commit you make can be credited to you.

2. Create a repository named "`hw1`" under your home (with your student ID as its default name) on the Git server, add the file `hw#1.txt` (see the attachment of this assignment) to the repository, and commit the update.

   You may accomplish the above by simply forking the repository `TA2023/hw1` (owned by the TA) on the server through its Web interface. Or, if you wish to experience more, you may create an empty project/repository (the remote repository) on the server, clone it to your machine (to get a local repository), add the file `hw#1.txt` to the local repository, commit the addition, and push the update to the remote repository.

3. Update the file `hw#1.txt` (by answering the questions in the file) and commit the update.

   You should first work under the local repository. When you are done with the updating, commit the update and push it to the remote repository (so that the TA can see the update).

4. Create a new file `hw#1a.txt`, write up one paragraph in the file describing the main difficulty/bottleneck (if any) in learning Git, and check it in to the repository.

   Again, you should first work under the local repository.

5. Make sure your remote `hw1` repository contains both `hw#1.txt` and `hw#1a.txt`.

IMPORTANT: We are in the process of updating the SSL certificate on the `sdm.im.ntu.edu.tw` server, but might not complete it in time. If you encounter an SSL certificate problem while executing Git commands with `http`, please turn off the `http.sslVerify` switch (`git config --global http.sslVerify "false"`) temporarily before accessing the remote repository and turn it back on (`git config --global --unset http.sslVerify`) afterwards. Once you have a local repository, you may want to turn off the switch just for that local repository (execute the command `git config http.sslVerify "false"` under the directory of the local repository).