Chung-Ang University, Department of Computer Science and Engineering

Assignment 01
Git Utility

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1 Introduction to Git

Git is a open source platform. It is available globally on git hub website and also in the form of desktop application with Graphical User Interface(GUI) for Windows, Mac and Linux platforms. It is version control system that helps us to manage changes made to documents and other computer files. We can maintain source files, documentations, short stories, pictures and manage the large projects. Projects with lot of revision and changes can be backtracked to the older version. Multiple person can work at a time on the single project from different places. The changes are clearly communicated with no error.

2 How to use Git?

For using the gitHub we have required GitHub account. We can sign-up account easily its free for every one. GitHub provides free unlimited storage publicly and chrages $7 per month for private storage.

git config –global user.name "Syed Farhan Alam Zaidi"

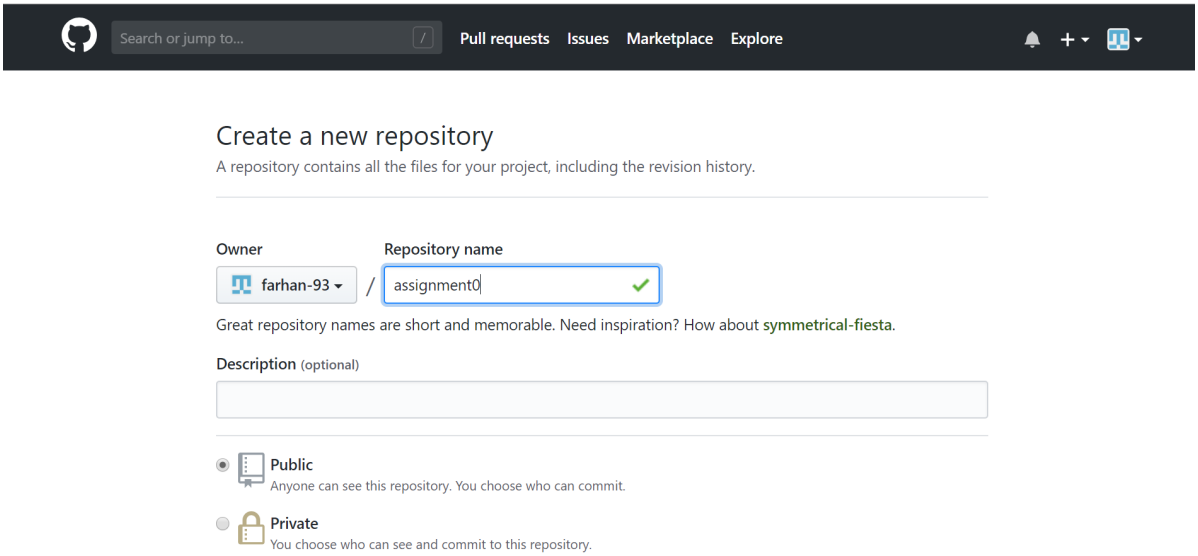

Figure 2.1: Create Repository

git config –global user.email "syedfarhanalam1993@gmail.com"

2.1 Create Repository

After configure git, make directory with the command "mkdir assignment01", and enter in the working directory assignemnt01 using "cd assignment01". Than, initialize the repository with "git init" command. We can also do it by using GUI on website. see figure 2.1. Figure 2.2 shows the current assignment01 repository.

2.2 Create file

After create the repository I make a file. I created the file in assignment01 repository with the name "assignment01.tex" see figure 2.3.

2.3 Commit

Commit is the process of updating the repository. It saves the all updated files. After create the empty file, I modified the data in the .tex file. and than commit it. See figure 2.4.

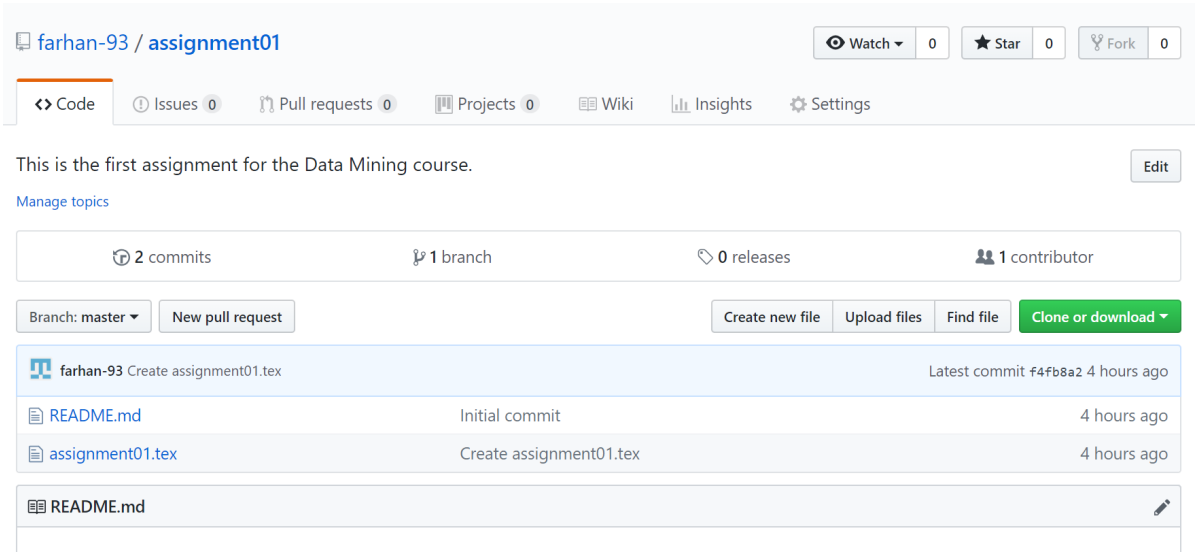

Figure 2.2: Repository

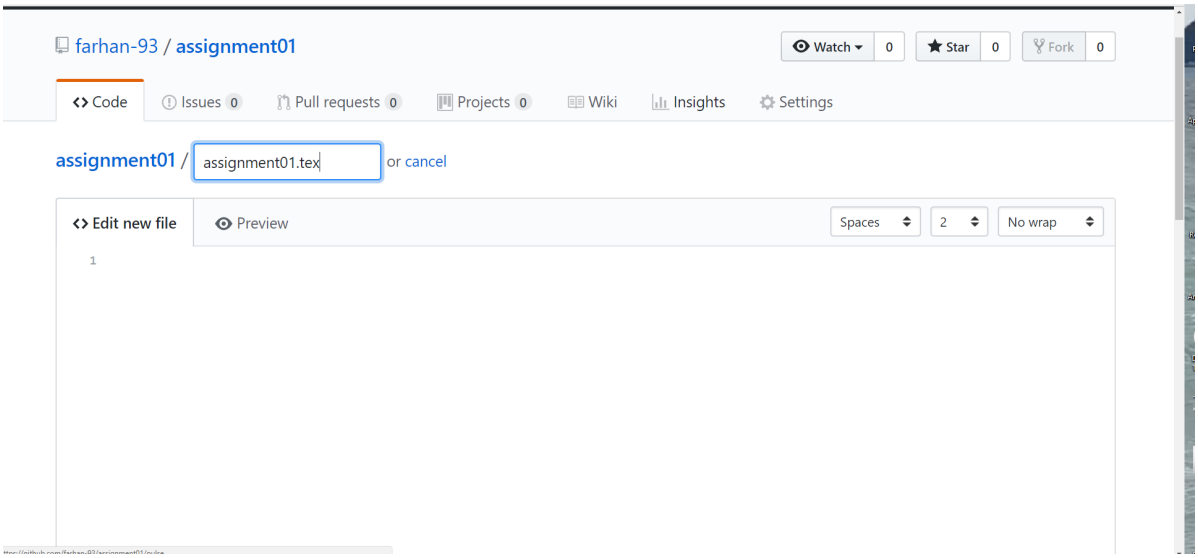

Figure 2.3: Create file

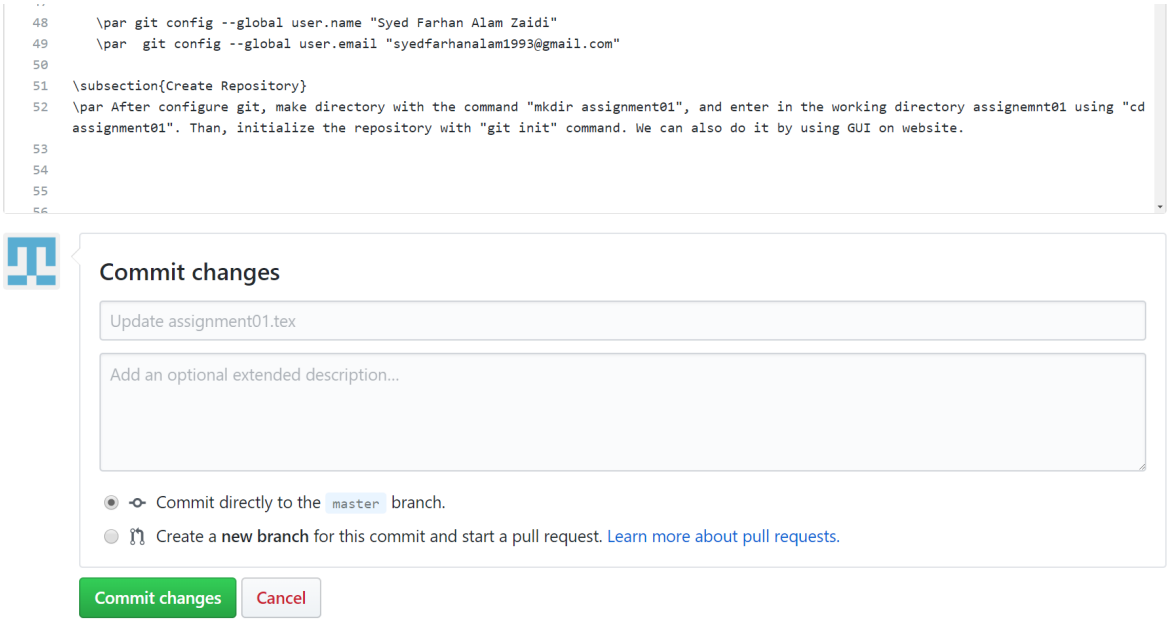

Figure 2.4: Commit the file

2.4 Pulling

Pulling is the process of remotely access the file to the local computer. Local computer must has the git repository. The git repository can be create by *"git init"* command. After creating the git repository on my local computer, pull the directory from gitHub. Shown in figure 2.5.

2.5 Pushing

Pushing is the process of remotely update the file to gitHub repository from the local computer. Local computer must has the git repository. The process of pushing is shown in figure 2.6 and 2.7. In figure 2.6 shows that its requires authentication when we push to the GitHub repository. Figure 2.7 shows the successful push operation.

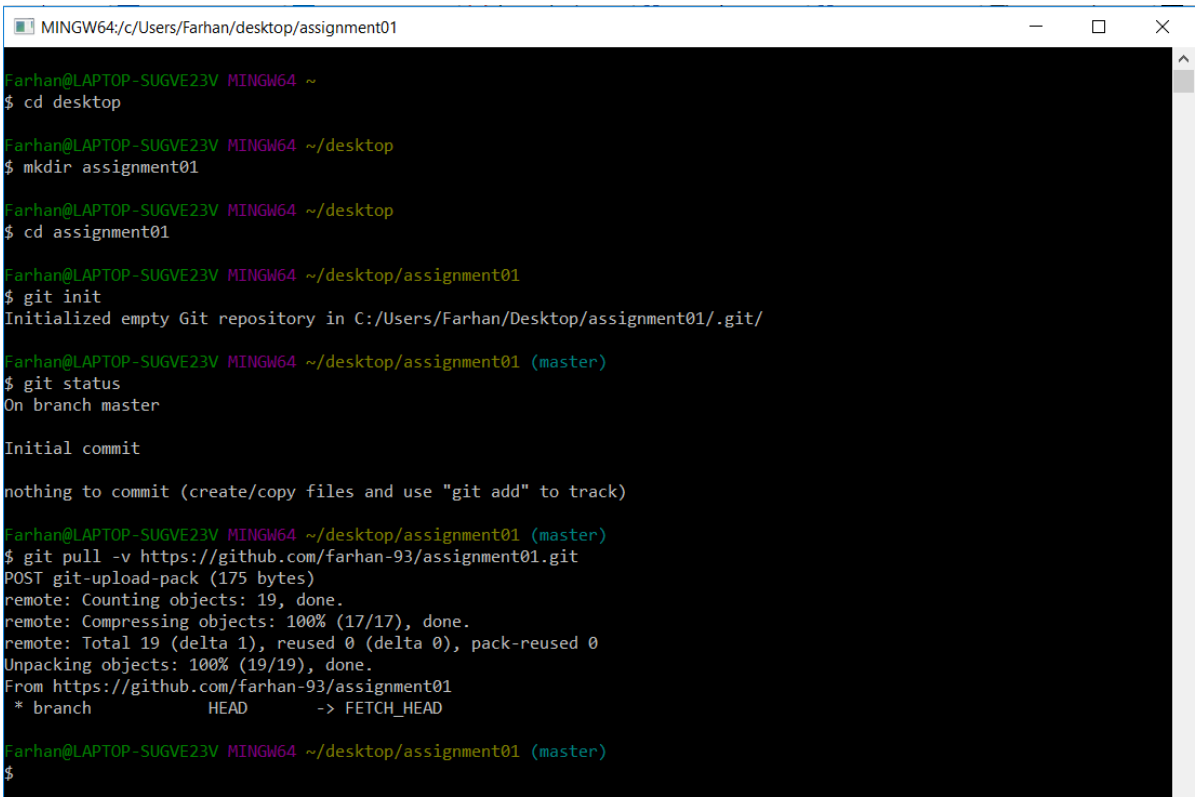

Figure 2.5: pull the file from "github.com/farhan-93/assignment01.git"

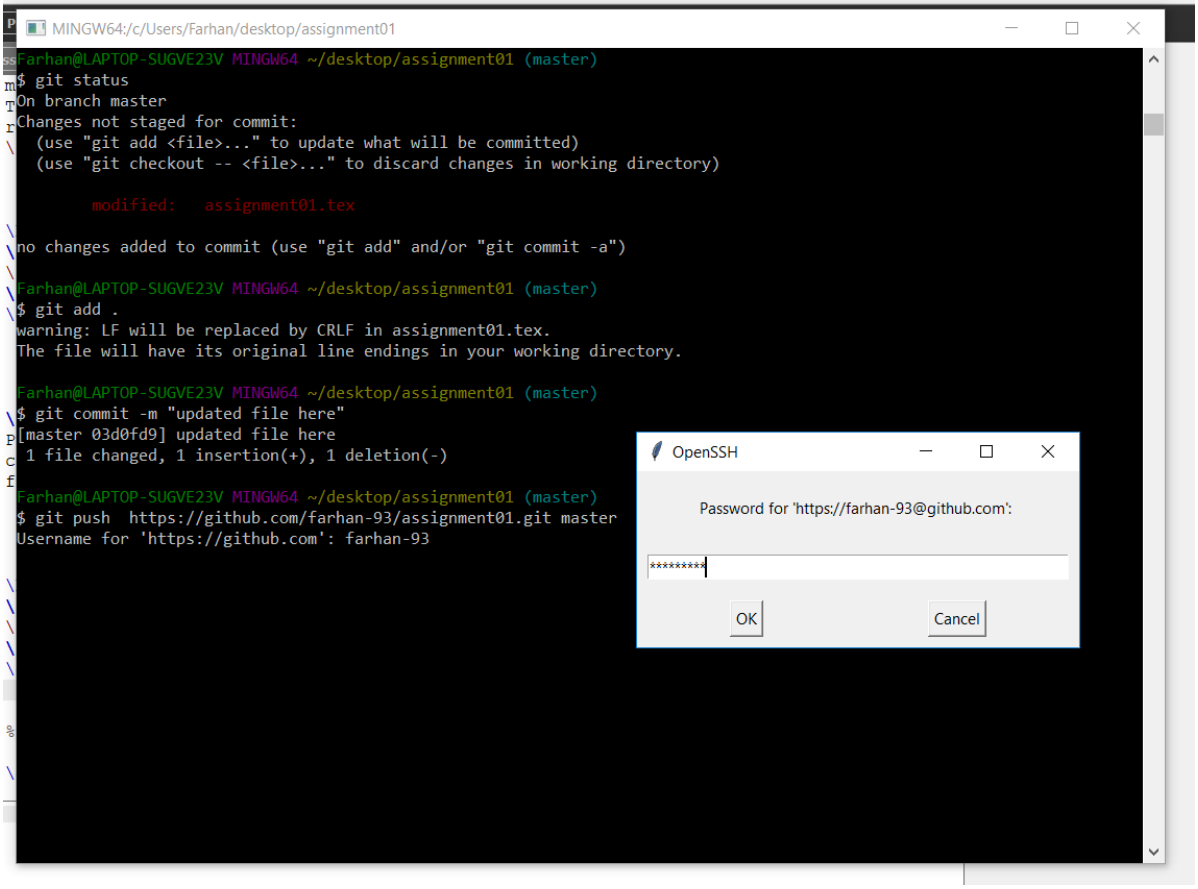

Figure 2.6: authentication during push the file from local computer to "github.com/farhan-93/assignment01.git"

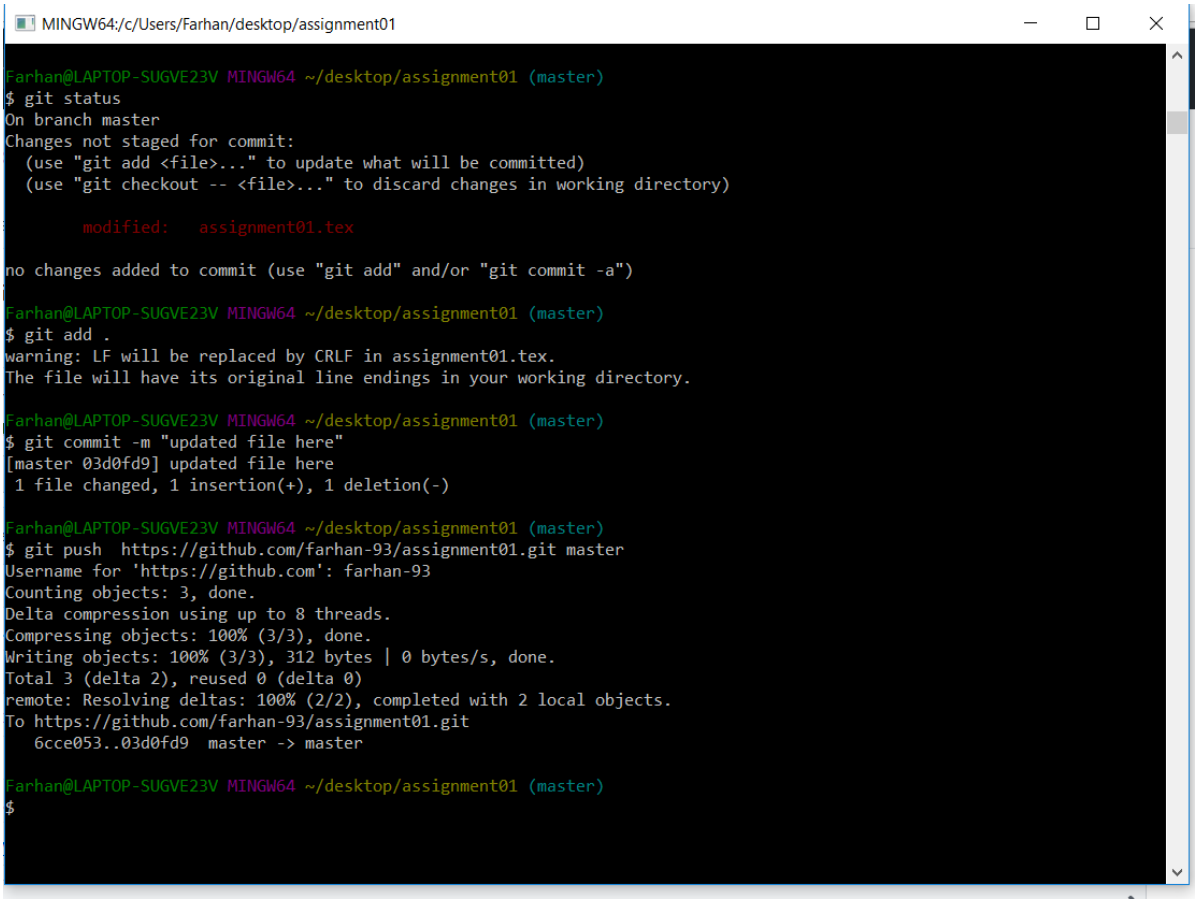

Figure 2.7: push the file from local computer to "github.com/farhan-93/assignment01.git"