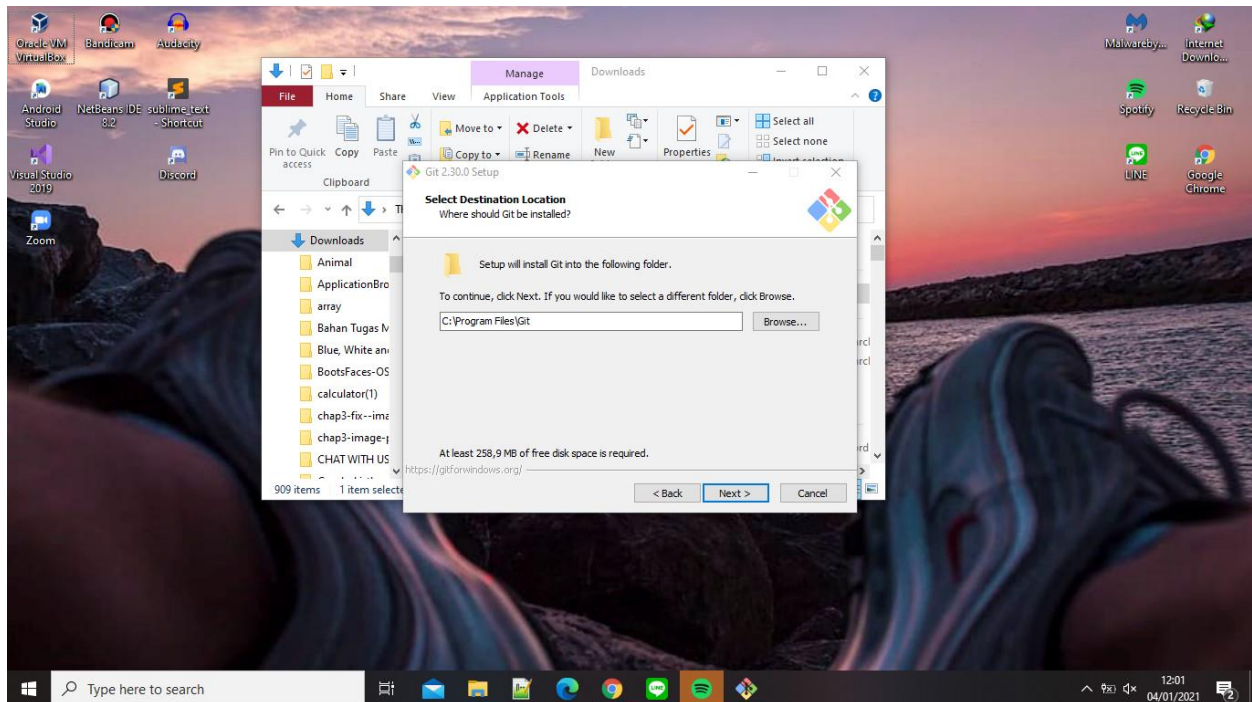


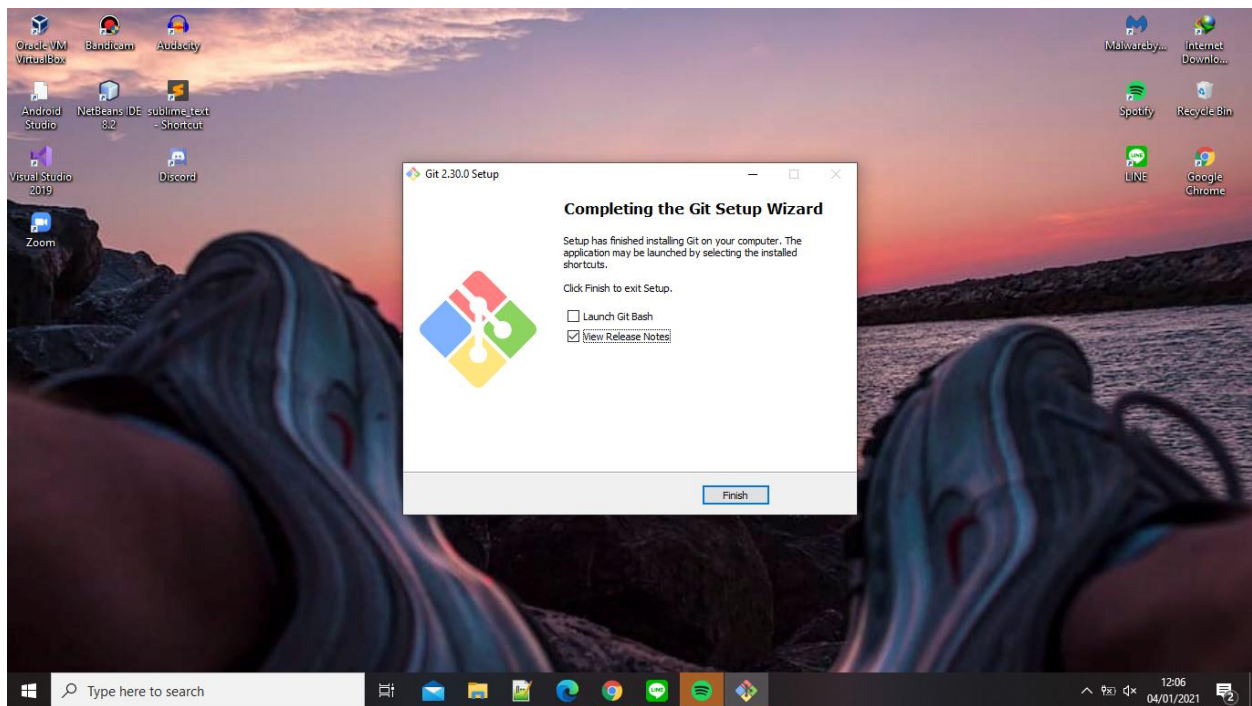
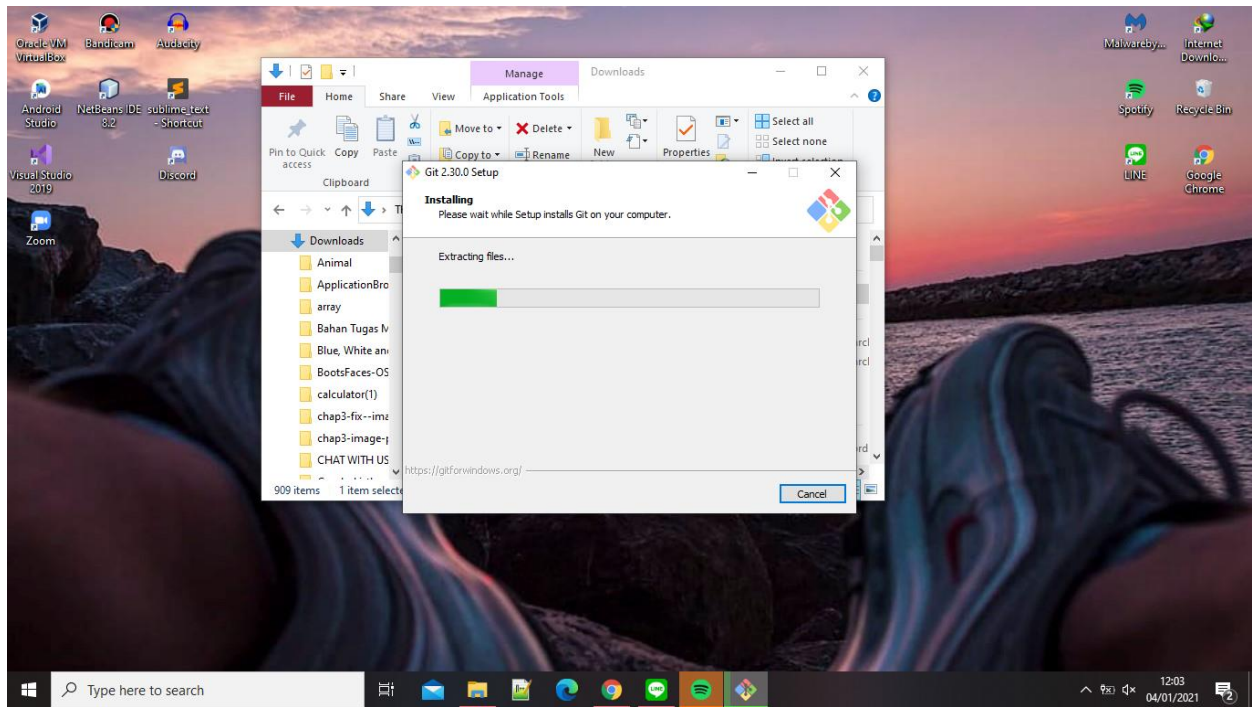
Nama : Muhammad Fadhilah

Nim : 1920010141

## Tutorial Git

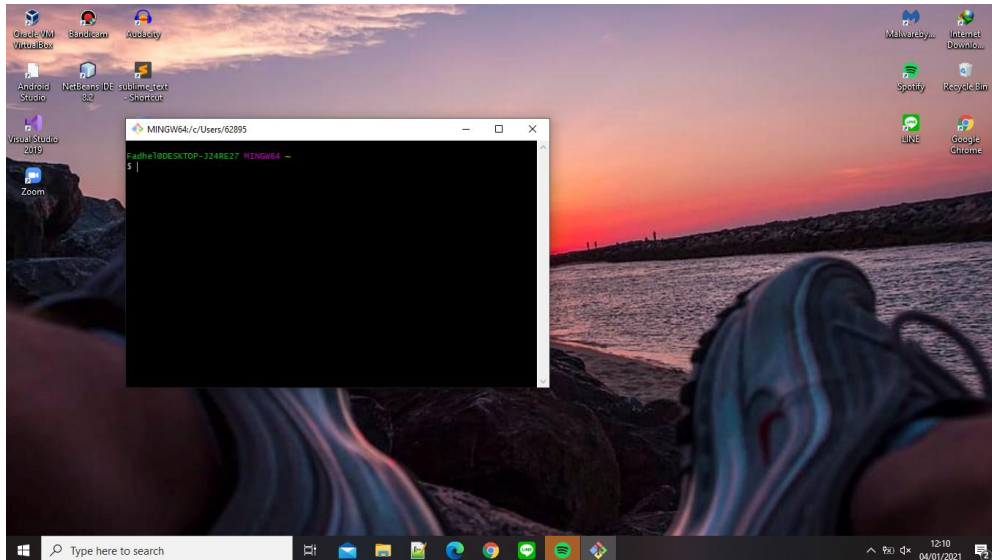
### Installation



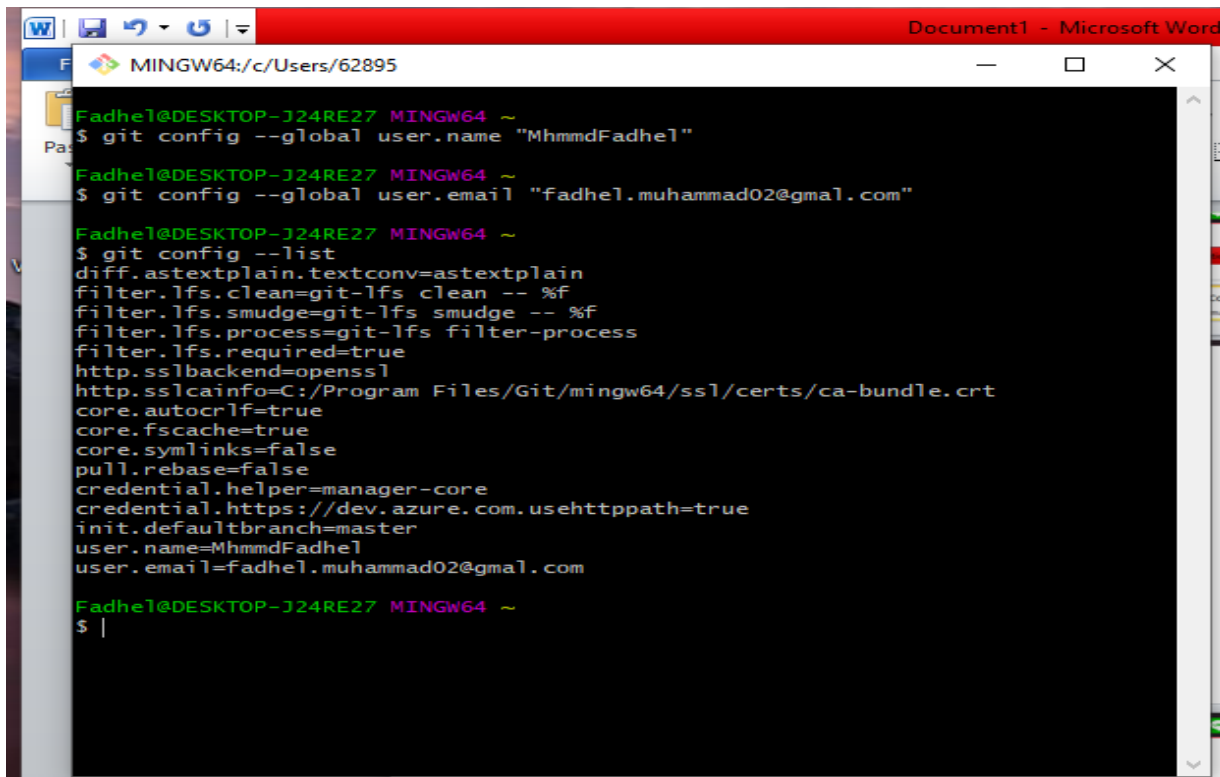


## Tutorial

### Tampilan Awal



### Meng set nama dan email dan melihat di list



## Membuat Direktori Turtorial-01

```
Fadhel@DESKTOP-J24RE27 MINGW64 ~  
$ mkdir turtorial-01  
  
Fadhel@DESKTOP-J24RE27 MINGW64 ~  
$ git init turtorial-01  
Initialized empty Git repository in C:/Users/62895/turtorial-01/.git/  
  
Fadhel@DESKTOP-J24RE27 MINGW64 ~  
$ git init  
Initialized empty Git repository in C:/Users/62895/.git/
```

Q1: Apa yang terjadi jika perintah dijalankan tanpa menyantumkan nama (path) directory?

Akan meng inisialisasi git repository gaada di file turtorial

## Menambahkan File Biodata

```
Fadhel@DESKTOP-J24RE27 MINGW64 ~ (master)  
$ cd turtorial-01  
  
Fadhel@DESKTOP-J24RE27 MINGW64 ~/turtorial-01 (master)  
$ git status  
On branch master  
  
No commits yet  
  
Untracked files:  
  (use "git add <file>..." to include in what will be committed)  
    biodata.txt  
  
nothing added to commit but untracked files present (use "git add" to track)  
  
Fadhel@DESKTOP-J24RE27 MINGW64 ~/turtorial-01 (master)  
$ |
```

Jika sudah memasukan “git add biodata.txt

```
Changes to be committed:  
  (use "git rm --cached <file>..." to unstage)  
    new file:   biodata.txt
```

Q2: Jelaskan perbedaan status working tree sebelum dan setelah menjalankan perintah add?  
file biodata akan hijau itu berarti sukses dan itu tandanya file telah diiterima di git dan berhasil masuk file tersebut

## Commit file

```
Fadhel@DESKTOP-J24RE27 MINGW64 ~/turtorial-01 (master)
$ git commit -m 'initial project version'
[master (root-commit) 7c4d4ae] initial project version
1 file changed, 2 insertions(+)
create mode 100644 biodata.txt

Fadhel@DESKTOP-J24RE27 MINGW64 ~/turtorial-01 (master)
$ git commit 'initial project version'
error: pathspec 'initial project version' did not match any file(s) known to git
```

Q3: Apakah maksud dari -m dan 'initial project version' pada perintah diatas? Apa yang terjadi jika perintah dilakukan tanpa menambahkan -m?

m berfungsi untuk memberikan pesan yang diberikan, jika tidak menggunakan -m maka akan error karena tidak diberikan koneksi dari pesan

## Commit log

```
Fadhel@DESKTOP-J24RE27 MINGW64 ~ (master)
$ git log
fatal: your current branch 'master' does not have any commits yet

Fadhel@DESKTOP-J24RE27 MINGW64 ~ (master)
$ cd turtorial-01

Fadhel@DESKTOP-J24RE27 MINGW64 ~/turtorial-01 (master)
$ git log
commit 7c4d4ae2686658d6b519447606a43b9818001661 (HEAD -> master)
Author: MhmmFadhel <fadhel.muhammad02@gmail.com>
Date: Mon Jan 4 13:40:32 2021 +0700

    initial project version
```

Q4: Informasi apa saja yang ditampilkan pada perintah log?

Informasi tentang commit

## Setelah di edit

```
Fadhel@DESKTOP-J24RE27 MINGW64 ~/turtorial-01 (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   biodata.txt

no changes added to commit (use "git add" and/or "git commit -a")
```

Q5: Informasi apa yang anda peroleh dari status saat ini?

File biodata yang ditracking akan terdeteksi Karen terjadi update

Status setelah commitnya udah kembali

```
Fadhel@DESKTOP-J24RE27 MINGW64 ~/tutorial-01 (master)
$ git add biodata.txt

Fadhel@DESKTOP-J24RE27 MINGW64 ~/tutorial-01 (master)
$ gitstatus
bash: gitstatus: command not found

Fadhel@DESKTOP-J24RE27 MINGW64 ~/tutorial-01 (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   biodata.txt
```

Q6: Informasi apa yang anda peroleh dari status saat ini?

File yang dimodifikasi berikan perintah add ulang dan hasilnya berhasil di tracking kembali

Q7: Berapakah id commit pertama anda?

Commit 7c4d4ae2686658d6b519447606a43b9818001661

Perbedaan commit pertama dan commit kedua

```
Fadhel@DESKTOP-J24RE27 MINGW64 ~/tutorial-01 (master)
$ git diff 7c4d4ae2686658d6b519447606a43b9818001661
diff --git a/biodata.txt b/biodata.txt
index 9b5a218..7a6b2e4 100644
--- a/biodata.txt
+++ b/biodata.txt
@@ -1,2 +1,3 @@
 No.Reg : 1920010141
 -Nama : Muhammad Fadilah
 \ No newline at end of file
 +Nama : Muhammad Fadilah
 +Jurusan : IT Programming
 \ No newline at end of file
```

Q8: Apakah maksud dari -u, origin, dan master pada perintah dalam kotak merah?

-u untuk menambahkan referensi ke server yang akan dipush, origin merupakan lokasi file, master merupakan bentuk dari file lokal yang punya

Q9: Apa perbedaan antara local dan remote repository pada titik ini?

Local dimana file yang terdapat di dalam komputer pengguna, sedangkan remote repository merupakan file yang local yang telah diupload dan online

Q10: Perubahan apa yang terjadi pada remote repository?

Setelah staging lalu commit, dan push maka file di remote repository akan update

Buat branch testing



```

Fadhel@DESKTOP-J24RE27 MINGW64 ~/tutorial-01 (testing)
$ git add branch.txt

Fadhel@DESKTOP-J24RE27 MINGW64 ~/tutorial-01 (testing)
$ git commit -m 'commit branch'
[testing 1db508a] commit branch
2 files changed, 2 insertions(+), 1 deletion(-)
create mode 100644 branch.txt

Fadhel@DESKTOP-J24RE27 MINGW64 ~/tutorial-01 (testing)
$ git push
fatal: The current branch testing has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin testing

Fadhel@DESKTOP-J24RE27 MINGW64 ~/tutorial-01 (testing)
$ git push --set-upstream origin testing
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 357 bytes | 119.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'testing' on GitHub by visiting:
remote:   https://github.com/mhmdFadhel1/3SC1_PNJ__1920010141_MuhammadFadhilah/pull/new/testing
remote:
To https://github.com/mhmdFadhel1/3SC1_PNJ__1920010141_MuhammadFadhilah.git
 * [new branch]      testing -> testing
Branch 'testing' set up to track remote branch 'testing' from 'origin'.

Fadhel@DESKTOP-J24RE27 MINGW64 ~/tutorial-01 (testing)
$

```

```

Fadhel@DESKTOP-J24RE27 MINGW64 ~/tutorial-01 (testing)
$ git push
Everything up-to-date

Fadhel@DESKTOP-J24RE27 MINGW64 ~/tutorial-01 (testing)
$ git ceheck out master
git: 'ceheck' is not a git command. See 'git --help'.

The most similar command is
  checkout

Fadhel@DESKTOP-J24RE27 MINGW64 ~/tutorial-01 (testing)
$ git checkout master
error: pathspec 'master' did not match any file(s) known to git

Fadhel@DESKTOP-J24RE27 MINGW64 ~/tutorial-01 (testing)
$ git cecheckout main
git: 'cecheckout' is not a git command. See 'git --help'.

The most similar command is
  checkout

Fadhel@DESKTOP-J24RE27 MINGW64 ~/tutorial-01 (testing)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

```

## Gabungkan testing dengan main

```
Fadhel@DESKTOP-J24RE27 MINGW64 ~/turtorial-01 (main)
$ git merge testing
Updating 7c4d4ae..1db508a
Fast-forward
 biodata.txt | 3 ++-
 branch.txt  | 0
2 files changed, 2 insertions(+), 1 deletion(-)
create mode 100644 branch.txt

Fadhel@DESKTOP-J24RE27 MINGW64 ~/turtorial-01 (main)
$ git push
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/mhmdmfadhel1/3Sc1_PNJ__1920010141_MuhammadFadhilah.git
 7c4d4ae..1db508a main -> main
```

```
Fadhel@DESKTOP-J24RE27 MINGW64 ~/turtorial-01 (main)
$ git clone https://github.com/mhmdmfadhel1/3Sc1_PNJ__1920010141_MuhammadFadhilah
Cloning into '3Sc1_PNJ__1920010141_MuhammadFadhilah'...
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 7 (delta 0), reused 7 (delta 0), pack-reused 0
Receiving objects: 100% (7/7), done.
```

## Melakukan cloning

```
Fadhel@DESKTOP-J24RE27 MINGW64 ~/turtorial-01/3Sc1_PNJ__1920010141_MuhammadFadhilah (testing)
$ cd 3Sc1_PNJ__1920010141_MuhammadFadhilah/
bash: cd: 3Sc1_PNJ__1920010141_MuhammadFadhilah/: No such file or directory

Fadhel@DESKTOP-J24RE27 MINGW64 ~/turtorial-01/3Sc1_PNJ__1920010141_MuhammadFadhilah (testing)
$ git status
On branch testing
Your branch is up to date with 'origin/testing'.

nothing to commit, working tree clean
```

```
Fadhel@DESKTOP-J24RE27 MINGW64 ~/turtorial-01/3Sc1_PNJ__1920010141_MuhammadFadhilah (main)
$ git add 1920010141.txt

Fadhel@DESKTOP-J24RE27 MINGW64 ~/turtorial-01/3Sc1_PNJ__1920010141_MuhammadFadhilah (main)
$ git commit -m 'npm commit'
[main 883c61d] npm commit
1 file changed, 1 insertion(+)
create mode 100644 1920010141.txt

Fadhel@DESKTOP-J24RE27 MINGW64 ~/turtorial-01/3Sc1_PNJ__1920010141_MuhammadFadhilah (main)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 317 bytes | 158.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/mhmdmfadhel1/3Sc1_PNJ__1920010141_MuhammadFadhilah
 1db508a..883c61d main -> main
```

Q11: Apa itu conflict dalam konteks Git. Jika pada langkah ini anda menemukan conflict, tambahkan pada jawaban anda bagaimana anda menyelesaikannya.



Conflict merupakan ketika 2 branch dipisah telah dilakukan pengeditan pada baris sebuah file atau ketika file telah dihapus tetapi diedit di bagian branch lain yang lainnya cara menyelesaikannya yaitu dengan cara diupload kembali untuk update.