

Dicky Saputra (1920010057)

## Tutorial 1

### Pengaturan nama, email dan list

```
MINGW64:/c/Users/asus/tutorial-01/3SC1_PNJ_T01_DickySaputra

asus@LAPTOP-6Q9VTOG1 MINGW64 ~ (master)
$ git config --global user.name "dicky saputra"

asus@LAPTOP-6Q9VTOG1 MINGW64 ~ (master)
$ git config --global user.email sap.dicky19@gmail.com

asus@LAPTOP-6Q9VTOG1 MINGW64 ~ (master)
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager-core
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=dicky saputra
user.email=sap.dicky19@gmail.com
core.repositoryformatversion=0
core.filemode=false
core.bare=false
core.logallrefupdates=true
core.symlinks=false
core.ignorecase=true
user.name=dicky saputra
```

### Melihat dan mengubah nama dan email

```
asus@LAPTOP-6Q9VTOG1 MINGW64 ~ (master)
$ git config user.name
dicky saputra

asus@LAPTOP-6Q9VTOG1 MINGW64 ~ (master)
$ git config user.email
sap.dicky19@gmail.com
```

### Membuat repository

```
asus@LAPTOP-6Q9VTOG1 MINGW64 ~ (master)
$ mkdir tutorial-01

asus@LAPTOP-6Q9VTOG1 MINGW64 ~ (master)
$ git init tutorial-01
Initialized empty Git repository in C:/Users/asus/tutorial-01/.git/
```

Q1 : repositorynya tidak akan tertuju ke folder tutorial 1

```
asus@LAPTOP-6Q9VTOG1 MINGW64 ~ (master)
$ git init
Reinitialized existing Git repository in C:/Users/asus/.git/
```

Q2: Sebelum add biodata file biodata.txt tidak dikenali, setelah di add maka statusnya dikenali.

```
asus@LAPTOP-6Q9VTOG1 MINGW64 ~ (master)
$ cd tutorial-01

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ git add biodata.txt

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ git status
On branch master

No commits yet

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

Q3: -m pada commit untuk insialisasi file jika tidak menggunakan akan error

```
asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ git commit -m'initial project version'
[master (root-commit) 70f648a] initial project version
 1 file changed, 2 insertions(+)
 create mode 100644 biodata.txt

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ git commit 'intial project version'
error: pathspec 'intial project version' did not match any file(s) known to git
```

Q4: pada log ada id commit, author, tanggalnya, dan isi pesannya.

```
asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ git log
commit 70f648a1f99babba11f14d7f2a42fa23df51fabe (HEAD -> master)
Author: dicky saputra <sap.dicky19@gmail.com>
Date:   Mon Jan 4 12:55:41 2021 +0700

    initial project version
```

Q5: saat isi biodata diubah, status biodata.txt menjadi dtidak dikenali lagi dan harus di tambahkan ulang.

```
asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-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")
```

Q6: setelah di tambah ulang maka statusnya akan berubah.

```
asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ git add biodata.txt

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   biodata.txt
```

Q7: id commit bisa di cek dengan log dan berdasarkan tanggal ubahnya. Disini id commit pertamanya 70f648a1f99babba11f14d7f2a42fa23df51fabe

```
asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ git commit -m 'initial project version'
[master f57eec1] initial project version
 1 file changed, 2 insertions(+), 1 deletion(-)

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ git log
commit f57eec1b44682e6d218ec3f02b2682377316ec18 (HEAD -> master)
Author: dicky saputra <sap.dicky19@gmail.com>
Date:   Mon Jan 4 12:59:07 2021 +0700

    initial project version

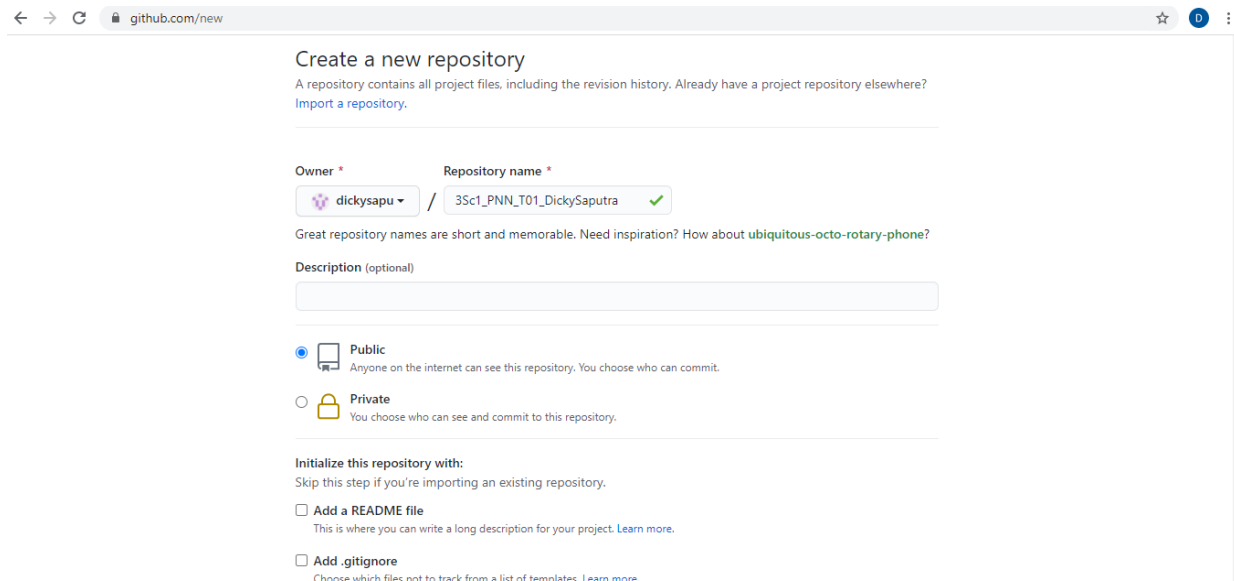
commit 70f648a1f99babba11f14d7f2a42fa23df51fabe
Author: dicky saputra <sap.dicky19@gmail.com>
Date:   Mon Jan 4 12:55:41 2021 +0700

    initial project version
```

Dit diff untuk melihat perubahan yang dilakukan terhadap file biodata.txt

```
asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ git diff 70f648a1f99babba11f14d7f2a42fa23df51fabe
diff --git a/biodata.txt b/biodata.txt
index 0110332..21186e8 100644
--- a/biodata.txt
+++ b/biodata.txt
@@ -1,2 +1,3 @@
 no. reg : 1920010057
-nama : dicky saputra
\ No newline at end of file
+nama : dicky saputra
+jurusan : CCIT-PNJ
\ No newline at end of file
```

Setelah buat akun github, buat repository baru.





github.com/new

### Create a new repository


A repository contains all project files, including the revision history. Already have a project repository elsewhere?  
[Import a repository.](#)


Owner <sup>\*</sup> Repository name <sup>\*</sup>

 dickysapu / 3Sc1\_PNN\_T01\_DickySaputra 

Great repository names are short and memorable. Need inspiration? How about [ubiquitous-octo-rotary-phone?](#)

Description (optional)

☒  **Public**  
Anyone on the internet can see this repository. You choose who can commit.

☐  **Private**  
You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☐ **Add a README file**  
This is where you can write a long description for your project. [Learn more.](#)

☐ **Add .gitignore**  
Choose which files not to track from a list of templates. [Learn more.](#)

Q8: -u adalah perintah untuk menambahkan referensi tracking ke server yang akan di push, origin melambangkan lokasi repository yang akan digunakan, dan master merupakan file local.

Q9: local mengupdate file dengan cara git add ulang sedangkan remote repository mengupdate file dengan cara git push. Remote repository bersifat online.

Q10: Setelah diubah dan dilakukan git push maka file di remote repository akan berubah dan akan ada pemberitahuan perubahannya.

```
asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ 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), 280 bytes | 280.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/dickysapu/3Sc1_PNJ_T01_DickySaputra.git
4944ddb..c952f46 master -> master
```

Membuat branch, mengubah testing, menambahkan file branch.txt dan melakukan commit.

```

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ git branch testing

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ git checkout testing
Switched to branch 'testing'

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (testing)
$ git add branch.txt

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (testing)
$ git commit -m'initial branch'
[testing c952f46] initial branch
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 branch.txt

```

Melakukan push terhadap testing.

```

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (testing)
$ git push --set-upstream github testing
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 4 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (12/12), 1.01 KiB | 45.00 KiB/s, done.
Total 12 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
remote:
remote: Create a pull request for 'testing' on GitHub by visiting:
remote:   https://github.com/dickysapu/3SC1_PNJ_T01_Dickysaputra/pull/new/testing
remote:
To https://github.com/dickysapu/3SC1_PNJ_T01_Dickysaputra.git
 * [new branch]      testing -> testing
Branch 'testing' set up to track remote branch 'testing' from 'github'.

```

Melakukan Checkout master, merge dan push master.

```

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (testing)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'github/master'.

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ git merge testing
Updating 4944ddb..c952f46
Fast-forward
 branch.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 branch.txt

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ 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), 280 bytes | 280.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/dickysapu/3SC1_PNJ_T01_Dickysaputra.git
4944ddb..c952f46 master -> master

```

Melakukan clone terhadap repository lalu mengubah nama file biodata pada folder kloningnya dan mengecek statusnya. Setelah itu menambahkan ulang file tersebut dan melakukan commit serta push ke github.

```
asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ git clone https://github.com/dickysapu/3SC1_PNJ_T01_DickySaputra.git
Cloning into '3SC1_PNJ_T01_DickySaputra'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 12 (delta 1), reused 12 (delta 1), pack-reused 0
Receiving objects: 100% (12/12), done.
Resolving deltas: 100% (1/1), done.

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01 (master)
$ cd 3SC1_PNJ_T01_DickySaputra/

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01/3SC1_PNJ_T01_DickySaputra (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes 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:    biodata.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        1920010057.txt

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

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01/3SC1_PNJ_T01_DickySaputra (master)
$ git add 1920010057.txt

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01/3SC1_PNJ_T01_DickySaputra (master)
$ git commit -m'intial edited'
[master ffe456c] intial edited
 1 file changed, 4 insertions(+)
 create mode 100644 1920010057.txt

asus@LAPTOP-6Q9VTOG1 MINGW64 ~/tutorial-01/3SC1_PNJ_T01_DickySaputra (master)
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 280 bytes | 280.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/dickysapu/3SC1_PNJ_T01_DickySaputra.git
   c952f46..ffe456c  master -> master
```

Q11: Conflict adalah saat 2 branch terpisah dan pada baris sebuah file atau file tersebut telah dihapus tetapi di branch lainnya telah diedit. Contohnya pada proses perubahan isi pada biodata, maka harus ditambahkan ulang untuk update.