

ACTIVITY PERTEMUAN 7

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MATERI : Dokumentasi Pengembangan Perangkat Lunak Terpadu, Version Control System, Git dan Github

MATA PRAKTIKUM : Rekayasa Perangkat Lunak 2

(Screenshoot langkah-langkah sesuai video pembelajaran dan jelaskan dengan ringkas)

SOAL :

1. Jelaskan apa itu git dan bagaimana git dapat membantu dalam kerja sama tim ?
2. Lakukan operasi yang dapat dilakukan pada github seperti membuat Repository, Clone Repository, Git Push dan Git Pull

JAWAB :

1. Git merupakan sebuah tools yang berguna untuk mengontrol versi dalam sebuah sistem yang bertujuan untuk mengelola, menyimpan serta berbagi kode sumber. Git sangat membantu dalam kerja sama tim karena dapat mengontrol versi sebuah proyek yang sedang dikerjakan, dapat berkolaborasi tanpa terjadinya sebuah konflik serta dapat melakukan identifikasi serta mengatasi konflik ketika dua orang atau lebih mengubah bagian yang sama dari sebuah file git.

OPERASI YANG DILAKUKAN PADA GITHUB

Membuat Repository

```
MINGW64:/d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095_2
Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095_2
$ echo "# pertemuan7_51421095_2" >> README.md
Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095_2
$ git init
Initialized empty Git repository in D:/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095_2/.git/
Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095_2 (master)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095_2 (master)
$ git commit -m "first commit"
[master (root-commit) a994112] first commit
1 file changed, 1 insertion(+)
create mode 100644 README.md
Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095_2 (master)
$ git branch -M main
Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095_2 (main)
$ git remote add origin https://github.com/wesya/pertemuan7_51421095_2.git
Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095_2 (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 238 bytes | 238.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/wesya/pertemuan7_51421095_2.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095_2 (main)
$
```

Clone Repository

```
MINGW64:/d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_clone
Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_clone
$ git clone https://github.com/wesya/pertemuan7_51421095.git
Cloning into 'pertemuan7_51421095'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_clone
$
```

Git Push

```
MINGW64:/d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095

Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   tes.txt

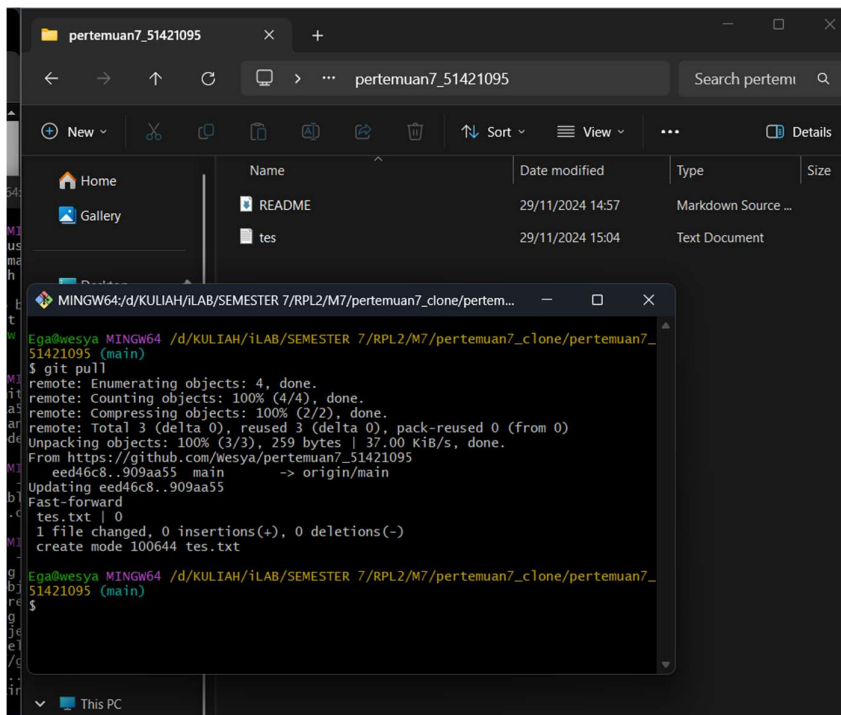
Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095 (main)
$ git commit -m "add test file"
[main 909aa55] add test file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 tes.txt

Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095 (main)
$ git push -u origin main
fatal: unable to access 'https://github.com/Wesya/pertemuan7_51421095.git/': Could not resolve host: github.com

Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095 (main)
$ git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 279 bytes | 279.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Wesya/pertemuan7_51421095.git
   eed46c8..909aa55  main -> main
branch 'main' set up to track 'origin/main'.

Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_51421095 (main)
$ |
```

Git Pull



The image shows a Windows File Explorer window in the background, displaying the contents of a folder named 'pertemuan7_51421095'. The folder contains two files: 'README' (a Markdown Source file) and 'tes' (a Text Document). In the foreground, a Windows Terminal window is open, showing the execution of a 'git pull' command. The terminal output indicates that the pull was successful, updating the local 'main' branch to the latest state of the remote repository. The output shows that 4 objects were enumerated, 100% of the objects were counted and compressed, and 3 objects were unpacked. The local branch 'main' was updated from 'eed46c8..909aa55' to 'origin/main'. The terminal also shows that 1 file changed, with 0 insertions and 0 deletions, and that the file 'tes.txt' was created with mode 100644.

```
Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_clone/pertemuan7_51421095 (main)
$ git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 259 bytes | 37.00 KiB/s, done.
From https://github.com/wesya/pertemuan7_51421095
   eed46c8..909aa55  main       -> origin/main
Updating eed46c8..909aa55
Fast-forward
 tes.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 tes.txt

Ega@wesya MINGW64 /d/KULIAH/iLAB/SEMESTER 7/RPL2/M7/pertemuan7_clone/pertemuan7_51421095 (main)
$
```