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Jelaskan apa itu git dan bagaimana git dapat membantu kerjasama tim.

Git adalah control system yang membantu programmer untuk melacak dan mengelola perubahan dalam kode sumber selama software development life cycle. Alat ini diciptakan oleh Linus Torvalds, orang yang juga menciptakan Linux.

Dengan Git, programmer dapat melacak perubahan kode lebih mudah, sehingga tim bisa bekerja secara efisien dan terorganisasi. Git membantu membuat salinan kode yang dapat dimodifikasi tanpa mengganggu versi utama. Dengan begitu, tim bekerja pada fitur atau perbaikan secara terpisah sebelum menggabungkannya kembali ke kode utama.

Salah satu keunggulan Git adalah kemampuannya menangani proyek besar dan kompleks. Hal ini dikarenakan Git menggunakan model data yang memastikan integritas kode dan history perubahan.

Setiap kali perubahan dilakukan, Git menciptakan "snapshot" dari kode dan merujuk snapshot tersebut, memudahkan pelacakan dan perbandingan versi kode sebelumnya. Fitur ini sangat berguna dalam mendeteksi dan memperbaiki kesalahan atau konflik yang mungkin terjadi selama proses pengembangan.

Membuat Repository

Name	Status	Date modified	Type
Pertemuan7_51421194	✓	25/11/2024 14:02	File
ACT1_Rachel Amelia_51421194	✓	21/10/2024 13:57	Misc

New repository

Q Type [7] to search

+

⌕

🔗

📁

👤


Create a new repository

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

Required fields are marked with an asterisk (*).

Owner *

Repository name *

 rachelamelial

/

Pertemuan7_51421194

✓ Pertemuan7_51421194 is available.

Great repository names are short and memorable. Need inspiration? How about [scaling-carnival](#) ?

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:

☐ Add a README file

☐ Create a new repository from a template

```

MINGW64:/c:/Users/rache/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum/Pertemuan7_51421194

rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum/Pertemuan7_51421194
$ echo "# Pertemuan7_51421194" >> README.md

rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum/Pertemuan7_51421194
$ git init
Initialized empty Git repository in C:/Users/rache/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum/Pertemuan7_51421194/.git/

rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum/Pertemuan7_51421194 (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

rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum/Pertemuan7_51421194 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   README.md

rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum/Pertemuan7_51421194 (master)
$ git commit -m "first commit"
[master (root-commit) 905be0d] first commit
1 file changed, 1 insertion(+)
create mode 100644 README.md

rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum/Pertemuan7_51421194 (master)
$ git branch -M main


rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum/Pertemuan7_51421194 (main)
$ git remote add origin https://github.com/rachelamelial/Pertemuan7_51421194.git

```

```


rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum/Pertemuan7_51421194 (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 231 bytes | 115.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/rachelamelial/Pertemuan7_51421194.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.


```



Pertemuan7_51421194
Public
Pin
Unwatch

main
1 Branch
0 Tags

Add file
Code


rachelamelial
first commit
905be0d · 4 minutes ago
1 Commit


README.md
first commit
4 minutes ago


README

Pertemuan7_51421194

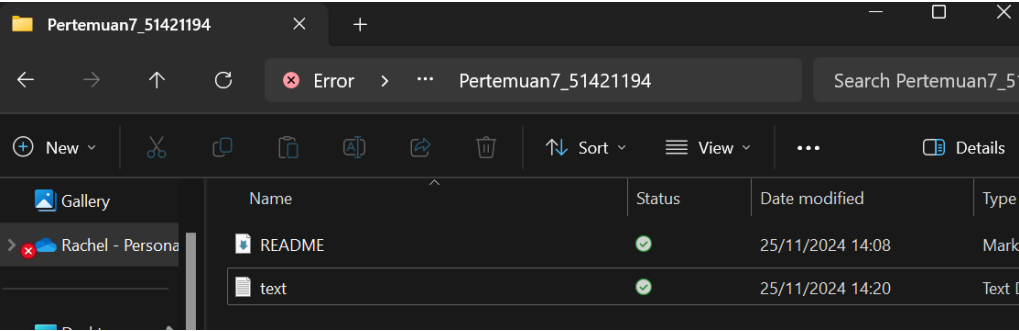
Melakukan Clone

```
MINGW64~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum
$ git clone https://github.com/rachelamelial/Pertemuan7_51421194.git
Cloning into 'Pertemuan7_51421194'...
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.

$
```

Pertemuan7_clone				
Error > ... Pertemuan7_clone				
Search Pertemuan7_clo				
New	Copy	Paste	Sort	View
Gallery	Name	Status	Date modified	Type
Rachel - Persona	Pertemuan7_51421194	✓	25/11/2024 14:18	File fol

Melakukan Push



```
MINGW64/c/Users/rache/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum/Pertemuan7_51421194

rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum
/Pertemuan7_51421194 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

nothing added to commit but untracked files present (use "git add" to track)

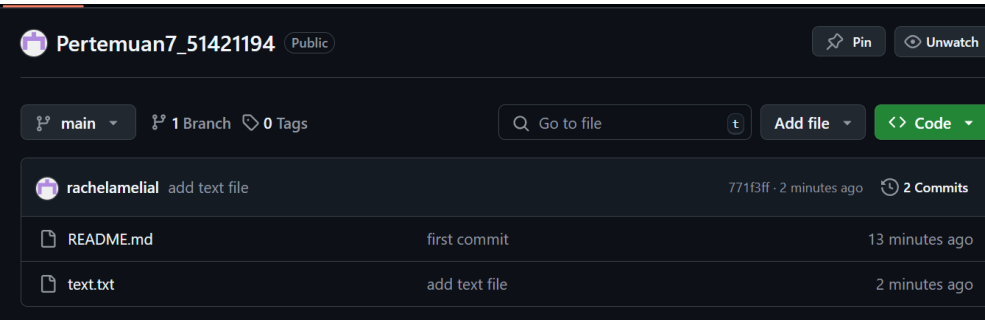
rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum
/Pertemuan7_51421194 (main)
$ git add .

rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum
/Pertemuan7_51421194 (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:   text.txt

rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum
/Pertemuan7_51421194 (main)
$ git commit -m "add text file"
[main 771f3ff] add text file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 text.txt

rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum
/Pertemuan7_51421194 (main)
$ git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 272 bytes | 272.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/rachelamelial/Pertemuan7_51421194.git
   905be0d..771f3ff  main -> main
branch 'main' set up to track 'origin/main'.
```



```
MINGW64:/c/Users/rache/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktiku...
rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum
/Pertemuan7_clone/Pertemuan7_51421194 (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), 252 bytes | 14.00 KiB/s, done.
From https://github.com/rachelamelial/Pertemuan7_51421194
   905be0d..771f3ff  main      -> origin/main
Updating 905be0d..771f3ff
Fast-forward
 text.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 text.txt

rache@LAPTOP-708IBC5N MINGW64 ~/OneDrive/Documents/KULIAH/Tahun 4/RPL2/praktikum
/Pertemuan7_clone/Pertemuan7_51421194 (main)
$ |
```

Pertemuan7_51421194					
Error > ... Tahun 4 > RPL2 > praktikum > Pertemuan7_clone > Pertemuan7_51421194					
New Sort View ...					
Gallery	Name	Status	Date modified	Type	Size
> Rachel - Persona	README	✓	25/11/2024 14:18	Markdown Source File	1 KB
	text	✓	25/11/2024 14:26	Text Document	0 KB