

ACTIVITY PRAKTIKUM

Mata Praktikum : Rekayasa Perangkat Lunak 2
Kelas : 4IA06
Praktikum ke- : 7
Tanggal : 26 November 2024
Materi : Dokumentasi Pengembangan Perangkat Lunak Terpadu, Version Control System, Git, dan Github
NPM : 51421517
Nama : William Devin Septianus Pranggono
Ketua Asisten :
Paraf Asisten :
Nama Asisten : Gilbert Jefferson Faozato Mendrofa
Jumlah Lembar : 15 lembar

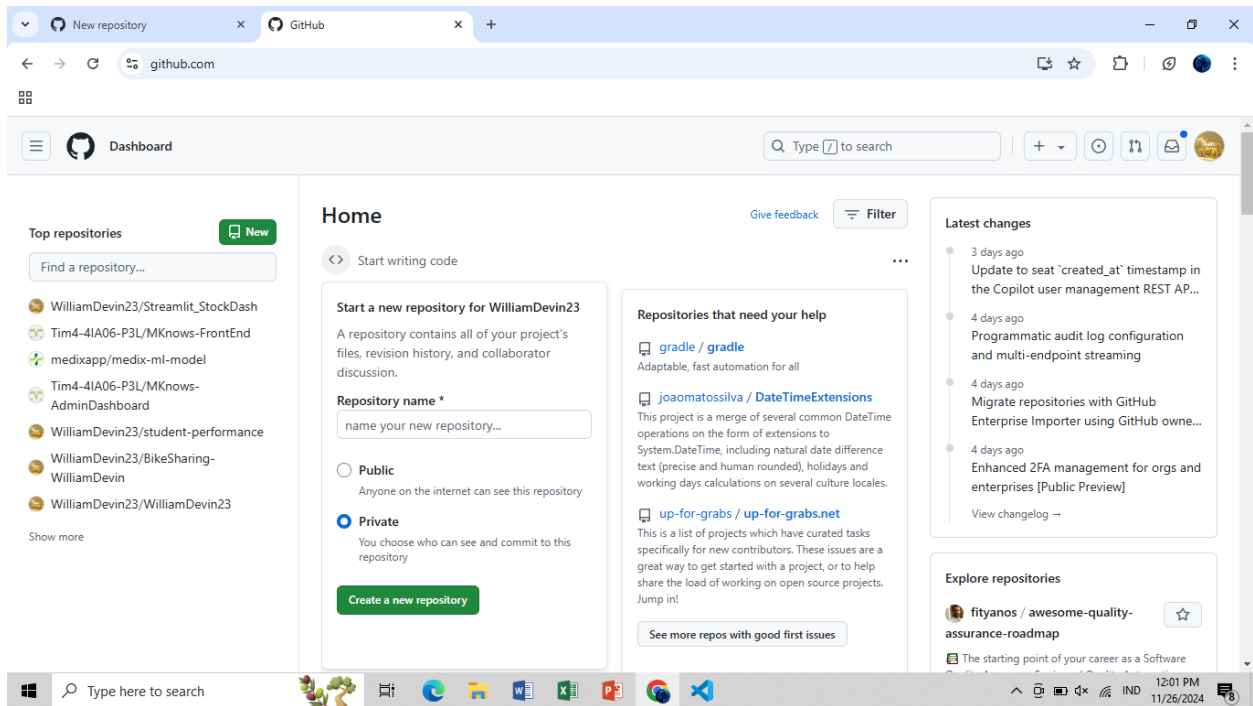
LABORATORIUM TEKNIK INFORMATIKA

UNIVERSITAS GUNADARMA

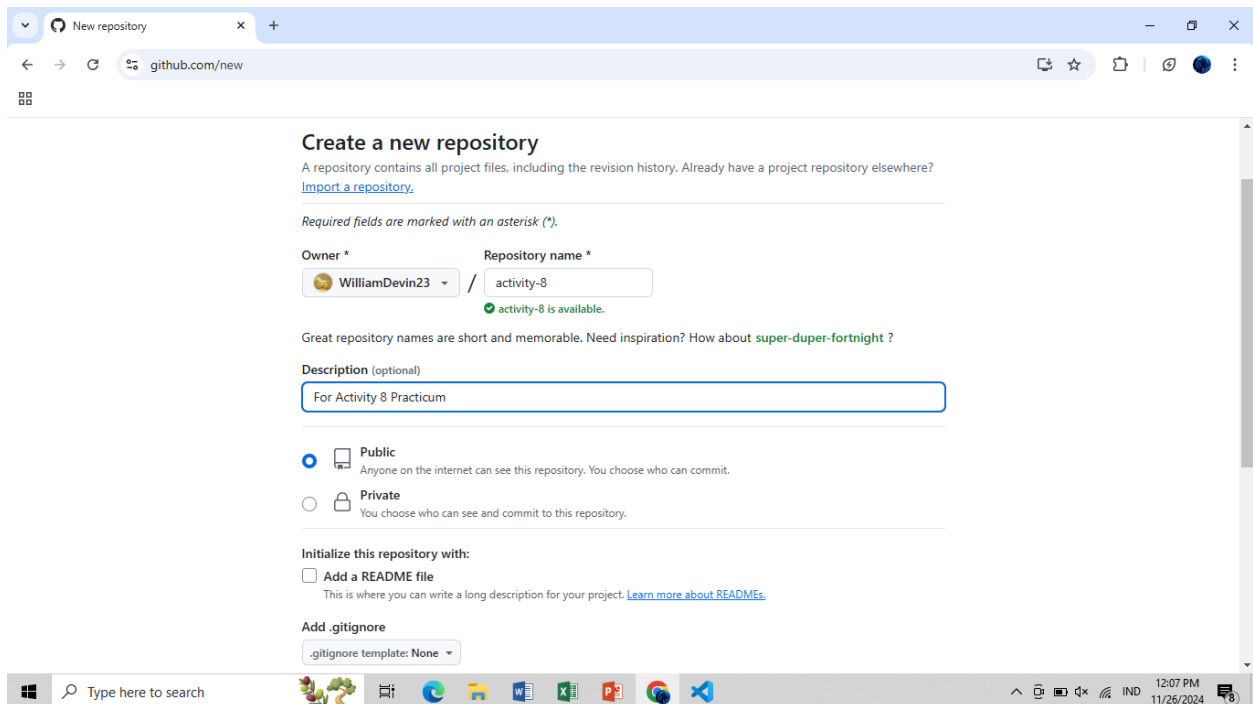
2024

Screenshot activity :

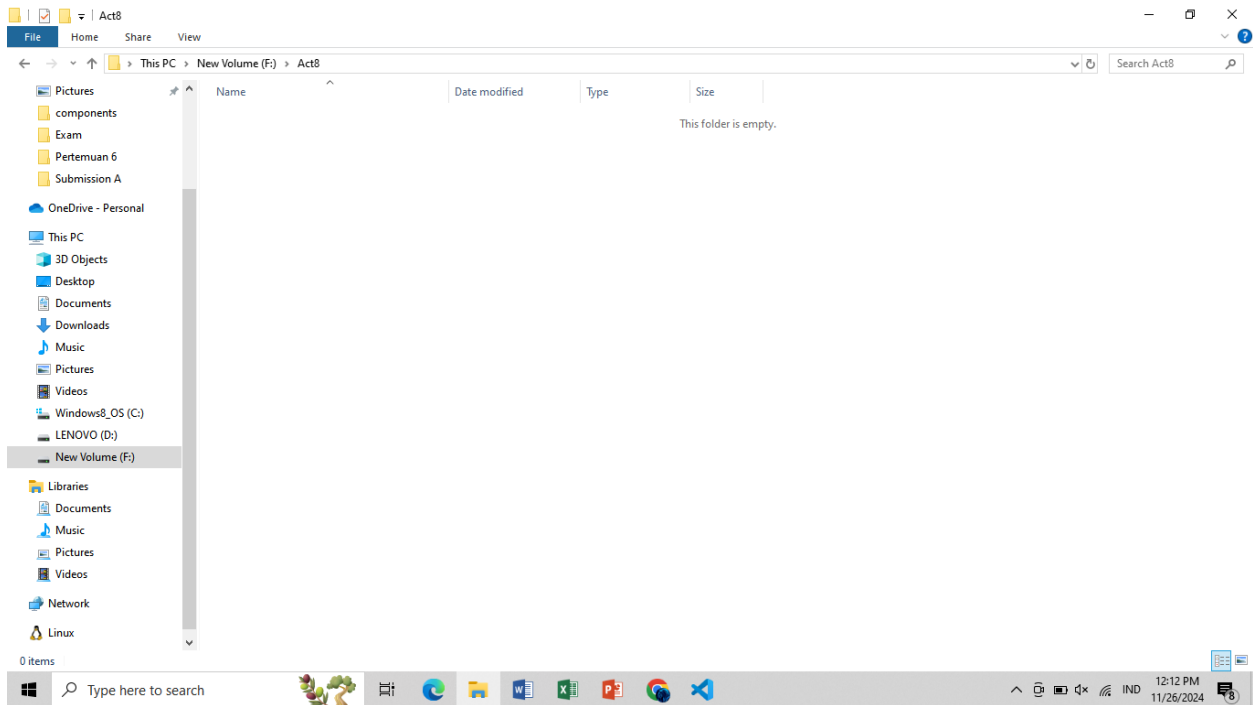
1. Klik New pada dashboard



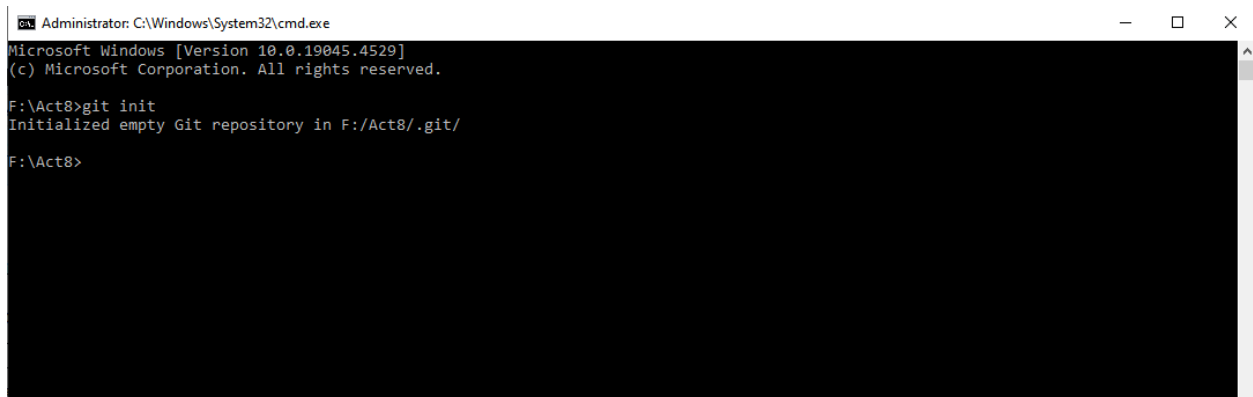
2. Lalu, isikan nama repository, lalu create repository.



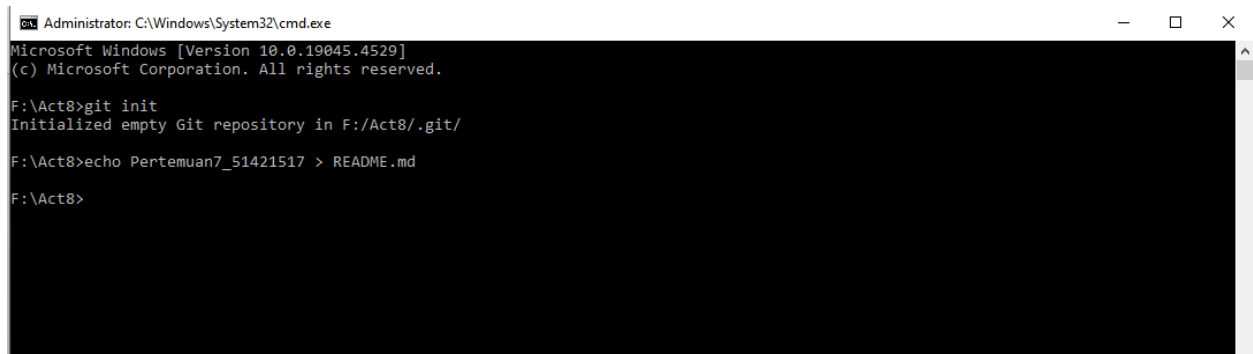
3. Pada local, tambahkan folder baru.



4. Buka Command Prompt pada folder tersebut, lalu ketik git init.



5. Lalu, ketik echo Pertemuan7_51421517 > README.md



6. Lalu, ketik git add README.md untuk menambahkan file ke staging.

```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.4529]
(c) Microsoft Corporation. All rights reserved.

F:\Act8>git init
Initialized empty Git repository in F:/Act8/.git/

F:\Act8>echo Pertemuan7_51421517 > README.md

F:\Act8>git add README.md

F:\Act8>
```

7. Lalu, ketik git commit -m "First commit" untuk menyimpan perubahan.

```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.4529]
(c) Microsoft Corporation. All rights reserved.

F:\Act8>git init
Initialized empty Git repository in F:/Act8/.git/

F:\Act8>echo Pertemuan7_51421517 > README.md

F:\Act8>git add README.md

F:\Act8>git commit -m "First commit"
[master (root-commit) cb35cf9] First commit
1 file changed, 1 insertion(+)
create mode 100644 README.md

F:\Act8>
```

8. Ketik git branch -M main untuk membuat branch main.

```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.4529]
(c) Microsoft Corporation. All rights reserved.

F:\Act8>git init
Initialized empty Git repository in F:/Act8/.git/

F:\Act8>echo Pertemuan7_51421517 > README.md

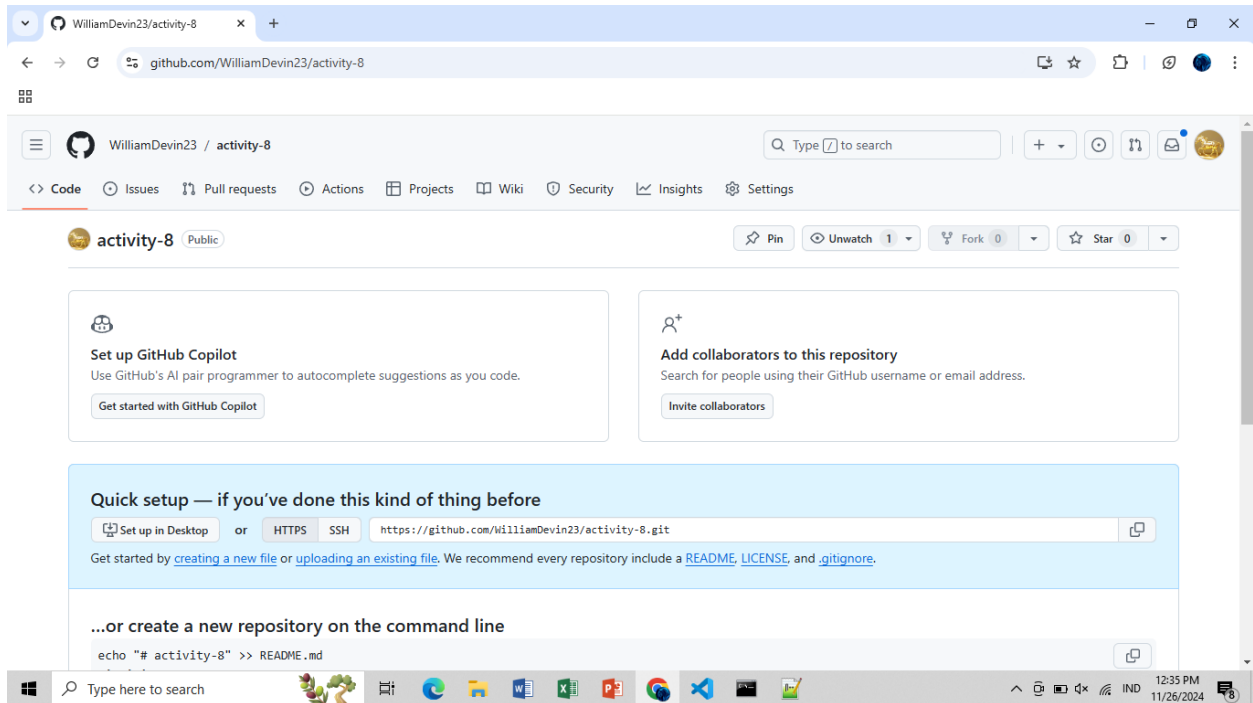
F:\Act8>git add README.md

F:\Act8>git commit -m "First commit"
[master (root-commit) cb35cf9] First commit
1 file changed, 1 insertion(+)
create mode 100644 README.md

F:\Act8>git branch -M main

F:\Act8>
```

9. Lalu, pada halaman remote repository, copy link repository.



10. Lalu, ketik `git remote add origin [URL]` untuk menambahkan remote repository pada folder local.

```
Administrator: C:\Windows\System32\cmd.exe
F:\Act8>git init
Initialized empty Git repository in F:\Act8\.git/

F:\Act8>echo Pertemuan7_51421517 > README.md

F:\Act8>git add README.md

F:\Act8>git commit -m "First commit"
[master (root-commit) cb35cf9] First commit
1 file changed, 1 insertion(+)
create mode 100644 README.md

F:\Act8>git branch -M main

F:\Act8>git remote add origin https://github.com/WilliamDevin23/activity-8.git

F:\Act8>
```

11. Lalu, ketik `git push -u origin main` untuk menyimpan file pada remote repository.

```
Administrator: C:\Windows\System32\cmd.exe
F:\Act8>git init
Initialized empty Git repository in F:\Act8\.git/

F:\Act8>echo Pertemuan7_51421517 > README.md

F:\Act8>git add README.md

F:\Act8>git commit -m "First commit"
[master (root-commit) cb35cf9] First commit
1 file changed, 1 insertion(+)
 create mode 100644 README.md

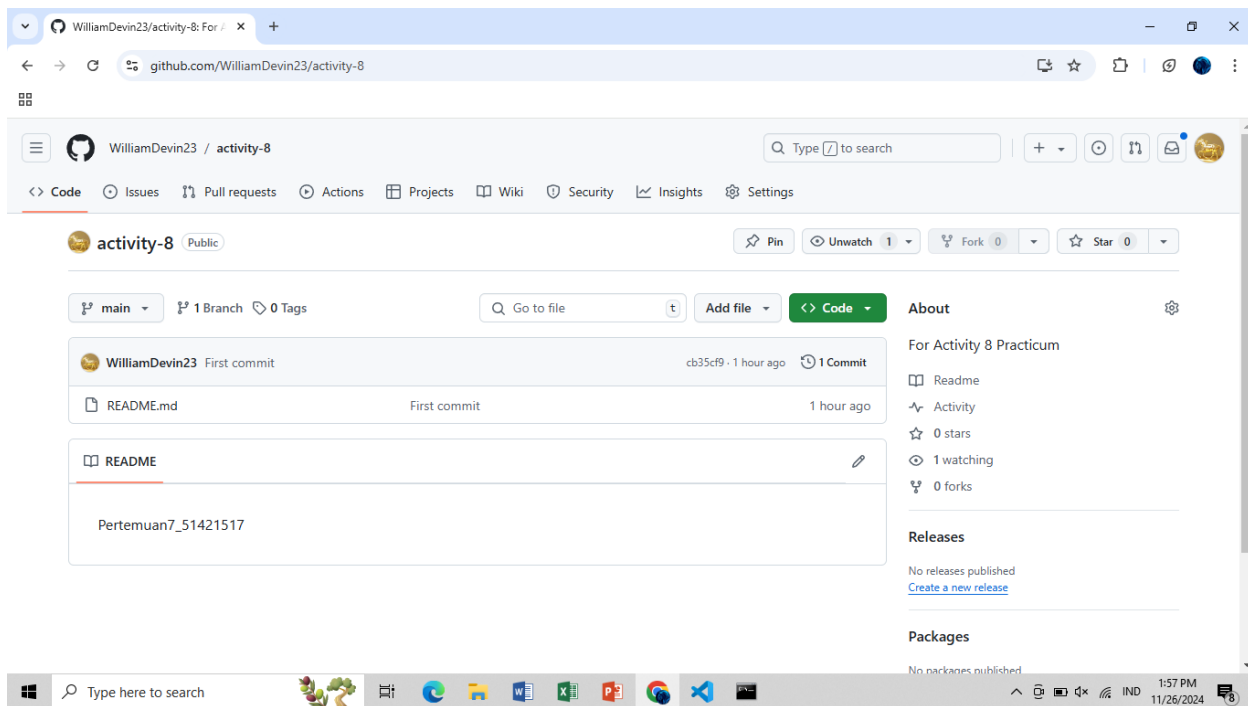
F:\Act8>git branch -M main

F:\Act8>git remote add origin https://github.com/WilliamDevin23/activity-8.git

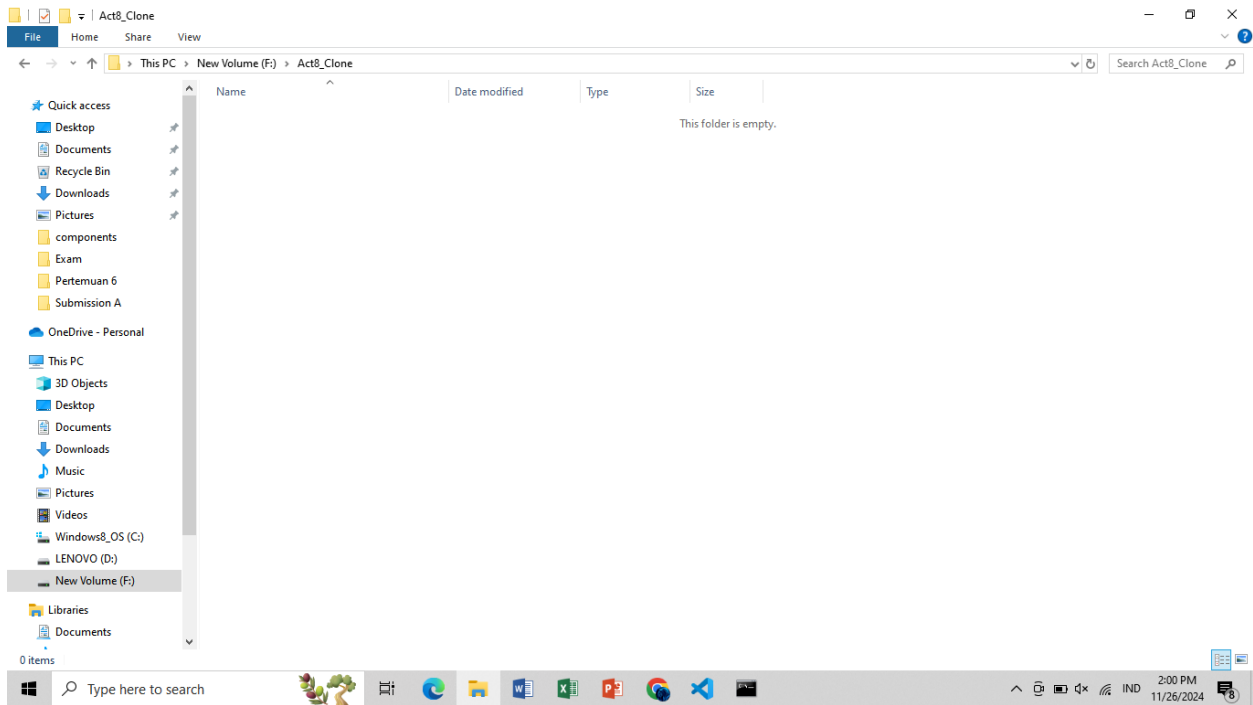
F:\Act8>git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 239 bytes | 59.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/WilliamDevin23/activity-8.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

F:\Act8>
```

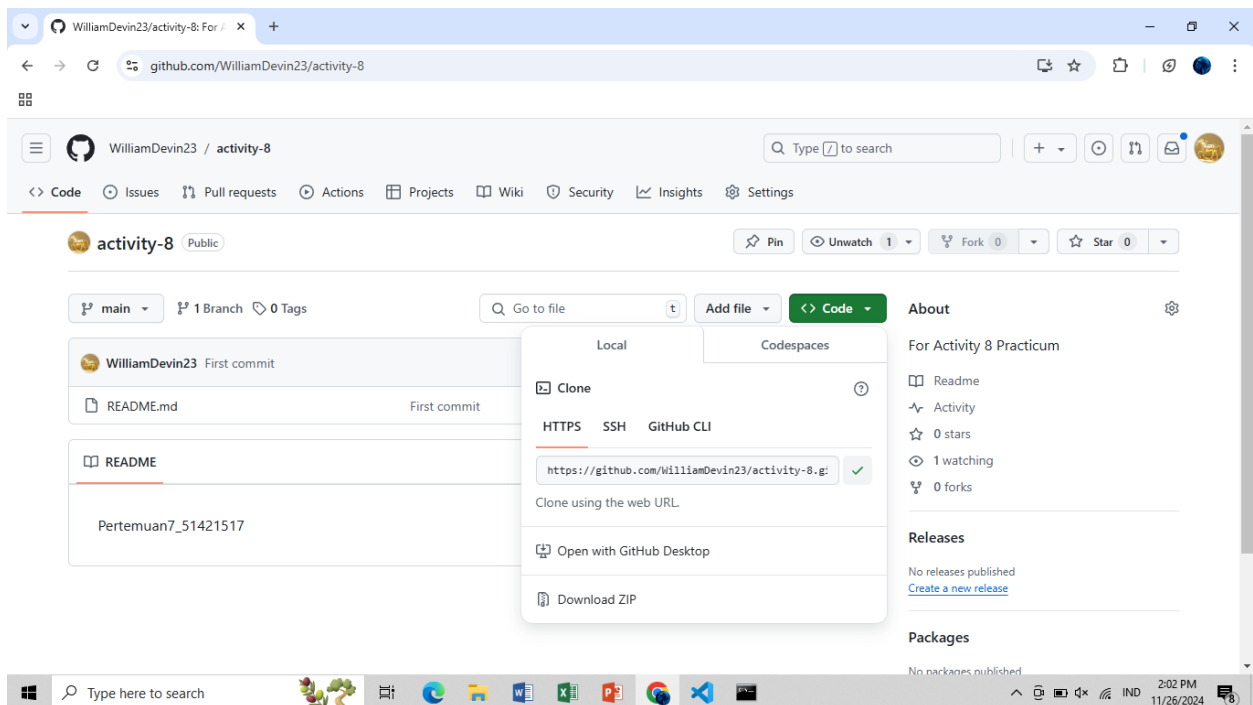
12. Berikut tampilan remote repository.



13. Kemudian, untuk melakukan clone, buat folder baru di local.



14. Pada remote repository, klik Code, lalu salin link repository.



15. Pada folder local, buka command prompt, lalu ketik git clone [URL].

```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.4529]
(c) Microsoft Corporation. All rights reserved.

F:\Act8_Clone>git clone https://github.com/WilliamDevin23/activity-8.git
Cloning into 'activity-8'...
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.

F:\Act8_Clone>
```

16. Buat sebuah file .txt baru pada folder repository awal.

```
Administrator: C:\Windows\System32\cmd.exe
F:\Act8>git init
Initialized empty Git repository in F:\Act8\.git/

F:\Act8>echo Pertemuan7_51421517 > README.md

F:\Act8>git add README.md

F:\Act8>git commit -m "First commit"
[master (root-commit) cb35cf9] First commit
1 file changed, 1 insertion(+)
create mode 100644 README.md

F:\Act8>git branch -M main

F:\Act8>git remote add origin https://github.com/WilliamDevin23/activity-8.git

F:\Act8>git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 239 bytes | 59.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/WilliamDevin23/activity-8.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

F:\Act8>notepad test.txt

F:\Act8>
```

17. Ketik git add . untuk menambahkan seluruh undetected file ke staging, kemudian git commit –m “Add test.txt” untuk menyimpan commit penambahan file.


```
Administrator: C:\Windows\System32\cmd.exe
F:\Act8>git init
Initialized empty Git repository in F:/Act8/.git/

F:\Act8>echo Pertemuan7_51421517 > README.md

F:\Act8>git add README.md

F:\Act8>git commit -m "First commit"
[master (root-commit) cb35cf9] First commit
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

F:\Act8>git branch -M main

F:\Act8>git remote add origin https://github.com/WilliamDevin23/activity-8.git

F:\Act8>git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 239 bytes | 59.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/WilliamDevin23/activity-8.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

F:\Act8>notepad test.txt

F:\Act8>git add .

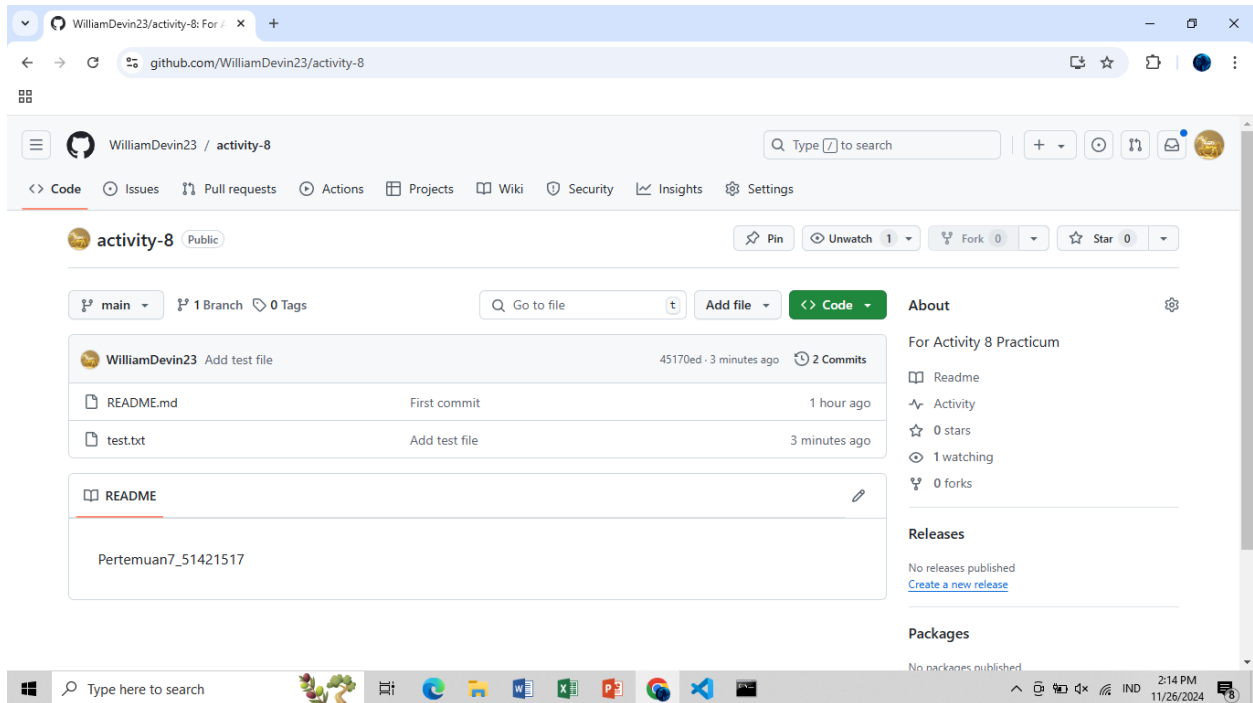
F:\Act8>git commit -m "Add test file"
[main 45170ed] Add test file
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test.txt

F:\Act8>
```

18. Lalu, ketik git push untuk menyimpan file pada repository remote.

```
Administrator: C:\Windows\System32\cmd.exe
F:\Act8>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 | 70.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/WilliamDevin23/activity-8.git
   cb35cf9..45170ed  main -> main

F:\Act8>
```



19. Untuk mendapatkan perubahan pada folder clone, lakukan git pull.

```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.4529]
(c) Microsoft Corporation. All rights reserved.

F:\Act8_Clone\activity-8>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), 260 bytes | 1024 bytes/s, done.
From https://github.com/WilliamDevin23/activity-8
   cb35cf9..45170ed main    -> origin/main
Updating cb35cf9..45170ed
Fast-forward
 test.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test.txt

F:\Act8_Clone\activity-8>
```

20. Buat file baru pada folder clone.

```
Select Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.4529]
(c) Microsoft Corporation. All rights reserved.

F:\Act8_Clone\activity-8>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), 260 bytes | 1024 bytes/s, done.
From https://github.com/WilliamDevin23/activity-8
   cb35cf9..45170ed  main       -> origin/main
Updating cb35cf9..45170ed
Fast-forward
 test.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test.txt

F:\Act8_Clone\activity-8>notepad branch.txt

F:\Act8_Clone\activity-8>_
```

21. Buat branch baru bernama percobaan dengan menggunakan perintah git branch percobaan.

```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.4529]
(c) Microsoft Corporation. All rights reserved.

F:\Act8_Clone\activity-8>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), 260 bytes | 1024 bytes/s, done.
From https://github.com/WilliamDevin23/activity-8
   cb35cf9..45170ed  main       -> origin/main
Updating cb35cf9..45170ed
Fast-forward
 test.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test.txt

F:\Act8_Clone\activity-8>notepad branch.txt

F:\Act8_Clone\activity-8>git branch percobaan

F:\Act8_Clone\activity-8>git branch
* main
  percobaan

F:\Act8_Clone\activity-8>
```

22. Kemudian, ketik git checkout percobaan untuk berganti branch.

```
F:\Act8_Clone\activity-8>git checkout percobaan
Switched to branch 'percobaan'
```

23. Kemudian, tambahkan file yang untracked dengan git add . lalu commit untuk menyimpan perubahan pada history repository.

```

F:\Act8_Clone\activity-8>git status
On branch percobaan
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        branch.txt

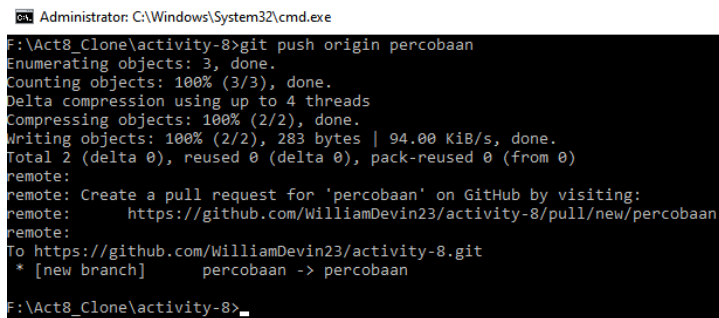
nothing added to commit but untracked files present (use "git add" to track)

F:\Act8_Clone\activity-8>git add .

F:\Act8_Clone\activity-8>git commit -m "Add branch.txt"
[percobaan 24dda61] Add branch.txt
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 branch.txt

```

24. Lalu, ketik git push origin percobaan untuk menyimpan file pada remote repository, branch percobaan.



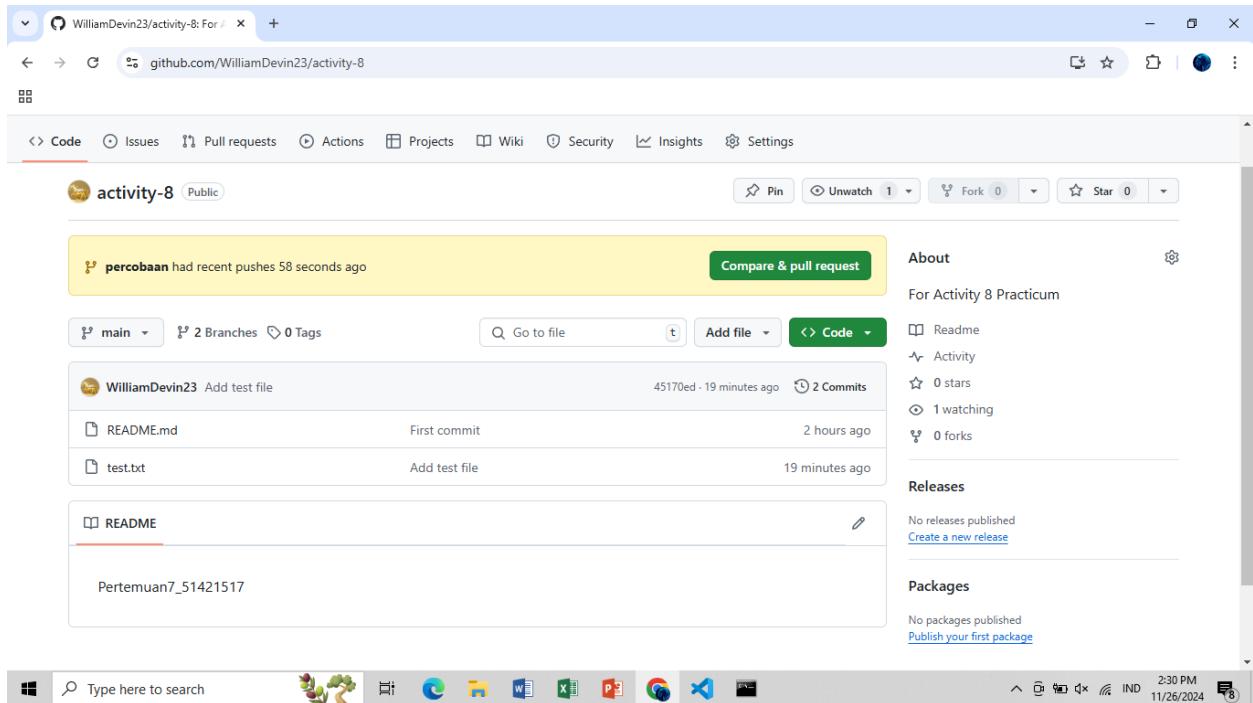
```

Administrator: C:\Windows\System32\cmd.exe
F:\Act8_Clone\activity-8>git push origin percobaan
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), 283 bytes | 94.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'percobaan' on GitHub by visiting:
remote:   https://github.com/WilliamDevin23/activity-8/pull/new/percobaan
remote:
To https://github.com/WilliamDevin23/activity-8.git
 * [new branch]      percobaan -> percobaan

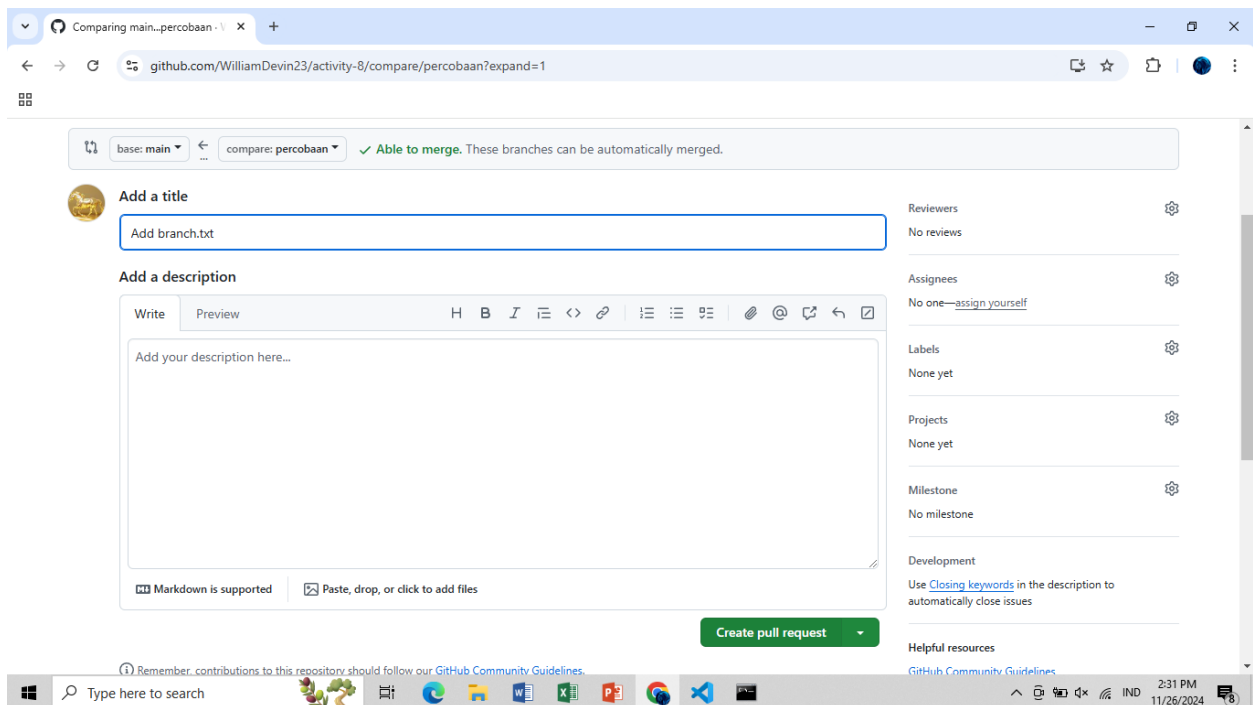
F:\Act8_Clone\activity-8>

```

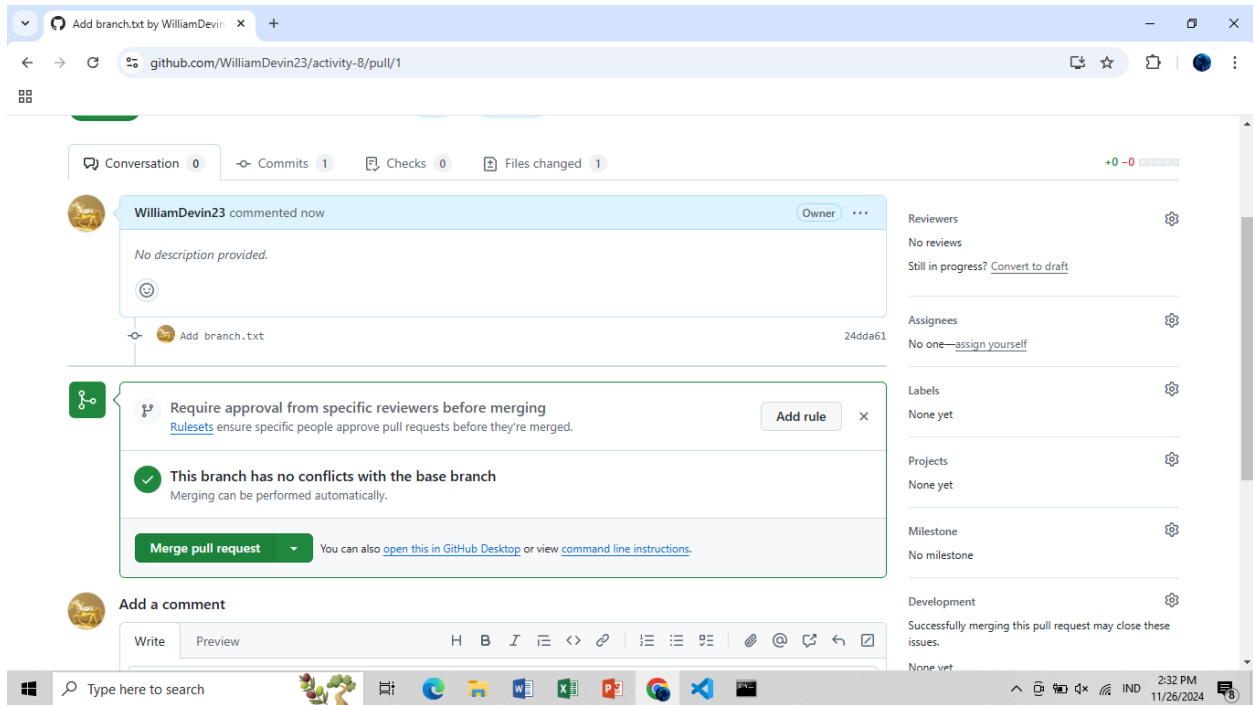
25. Kemudian, untuk menerima penambahan branch dan file baru, pada remote repository, klik compare and pull request.



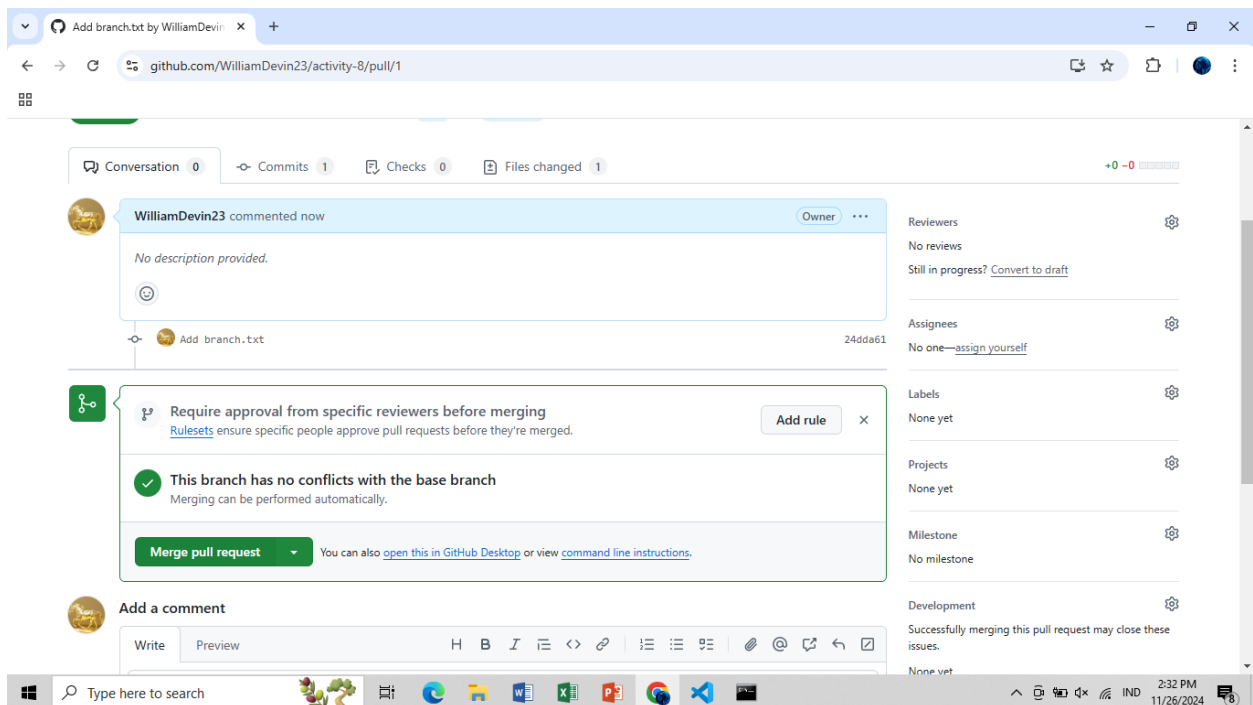
26. Lalu, klik Create pull request.



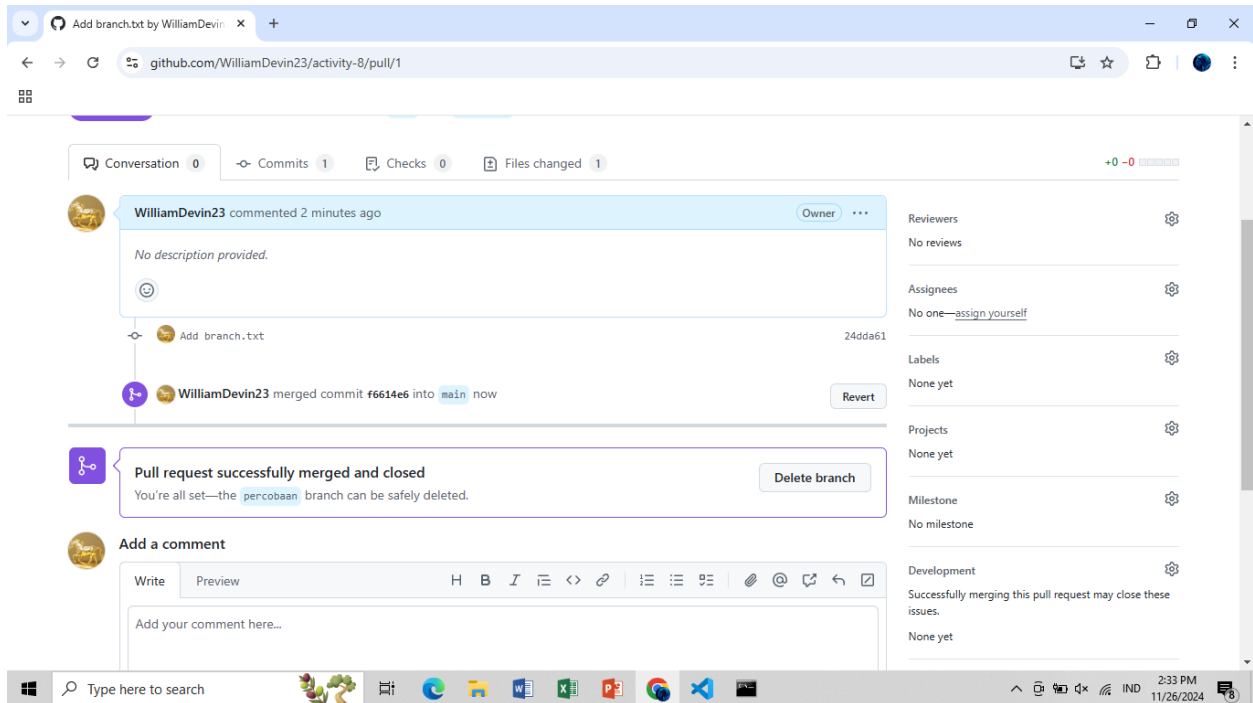
27. Karena tidak ada conflict, klik merge pull request.



28. Lalu, klik confirm merge untuk mengonfirmasi merge.



29. Hasil akhirnya adalah sebagai berikut.



30. Kemudian, pada folder repository awal, ketik git pull untuk mendapatkan perubahan (file branch.txt).

```
Administrator: C:\Windows\System32\cmd.exe
cb35cf9..45170ed main -> main

F:\Act8>git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 2 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 1.13 KiB | 3.00 KiB/s, done.
From https://github.com/WilliamDevin23/activity-8
  45170ed..f6614e6  main       -> origin/main
  * [new branch]   percobaan -> origin/percobaan
Updating 45170ed..f6614e6
Fast-forward
 branch.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 branch.txt

F:\Act8>
```