

Github.com

Adi Wahyu Pribadi

GitHub

- GitHub adalah website dan layanan berbasis cloud yang digunakan oleh para developer untuk menyimpan dan mengelola kode suatu proyek.
- Platform ini memanfaatkan system version control dan Git untuk mengelola perubahan kode.

Fungsi GitHub

- Kolaborasi: memudahkan kolaborasi dalam menjalankan proyek. Developer dapat mengakses dan mengelola kode di satu tempat, melakukan review kode Bersama, dan berdiskusi perbaikan bug.
- Keamanan: GitHub menyediakan fitur keamanan
- Portfolio: GitHub juga berfungsi sebagai portfolio bagi developer

Membuat Akun GitHub dan menghubungkan git local ke GitHub

- Buka Github dan signup di <https://github.com/signup>
- Setelah punya akun di GitHub maka selanjutnya adalah menghubungkan local ke github menggunakan SSH Key.
- Buka terminal atau command prompt di Windows
- Tuliskan perintah

```
ssh-keygen -t rsa -b 4096 -C alamat\_email\_kamu@contoh.com
```

- Gantilah alamat_email_kamu@contoh.com dengan alamat email yang terdaftar di GitHub.
- Kita akan diminta lokasi penyimpanan kunci SSH. Biarkan sesuai defaultnya (biasanya disimpan di C:\Users\\.ssh\id_rsa)

Membuat Akun GitHub dan menghubungkan git local ke GitHub

- Kita juga dapat mengatur passphrase untuk kunci SSH. Jika ingin mengosongkan passphrase, cukup tekan Enter.
- Setelah selesai, akan ada dua file baru di dalam folder `C:\Users\\.ssh` yaitu:
 - `id_rsa`: Private Key (jangan bagikan ini ke siapapun)
 - `id_rsa.pub`: Public Key (kunci ini yang akan ditambahkan ke GitHub)

Membuat Akun GitHub dan menghubungkan git local ke GitHub

- Tambahkan SSH Key ke GitHub
 - Buka GitHub dan login ke akun kita
 - Klik foto profil di pojok kanan atas, lalu pilih Settings.
 - Pilih SSH dan GPG Keys di menu sebelah kiri.
 - Klik tombol New SSH Key.
 - Beri judul (missal nama computer kamu) dan paste isi dari file id_rsa.pub
 - Klik Add SSH Key.

Di sini, saya memiliki dua laptop yang didaftarkan ke github dan mendaftarkan SSH Key Public dari Asus Vivo PTIK dan MacBook Pro

SSH keys

New SSH key

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

Authentication keys

	Asus Vivo PTIK [Redacted]	Delete
	Added on Oct 24, 2023 Never used — Read/write	
	MacBook Pro Apak [Redacted]	Delete
	Added on Mar 2, 2024 Never used — Read/write	

Check out our guide to [connecting to GitHub using SSH keys](#) or troubleshoot [common SSH problems](#).

Membuat Akun GitHub dan menghubungkan git local ke GitHub

- Ujicoba SSH Key:
 - Ketik perintah berikut di terminal

```
ssh -T git@github.com
```

- Jika berhasil, terlihat pesan
“Hi <username>! You’ve successfully authenticated, but GitHub does not provide shell access”

```
C:\Users\pancasila\belajar-git  
λ ssh -T git@github.com  
Hi adiwp! You've successfully authenticated, but GitHub does not provide shell access.
```

Praktik Proyek di Local dan Github

- Membuat folder belajar-git

```
$ mkdir belajar-git
```

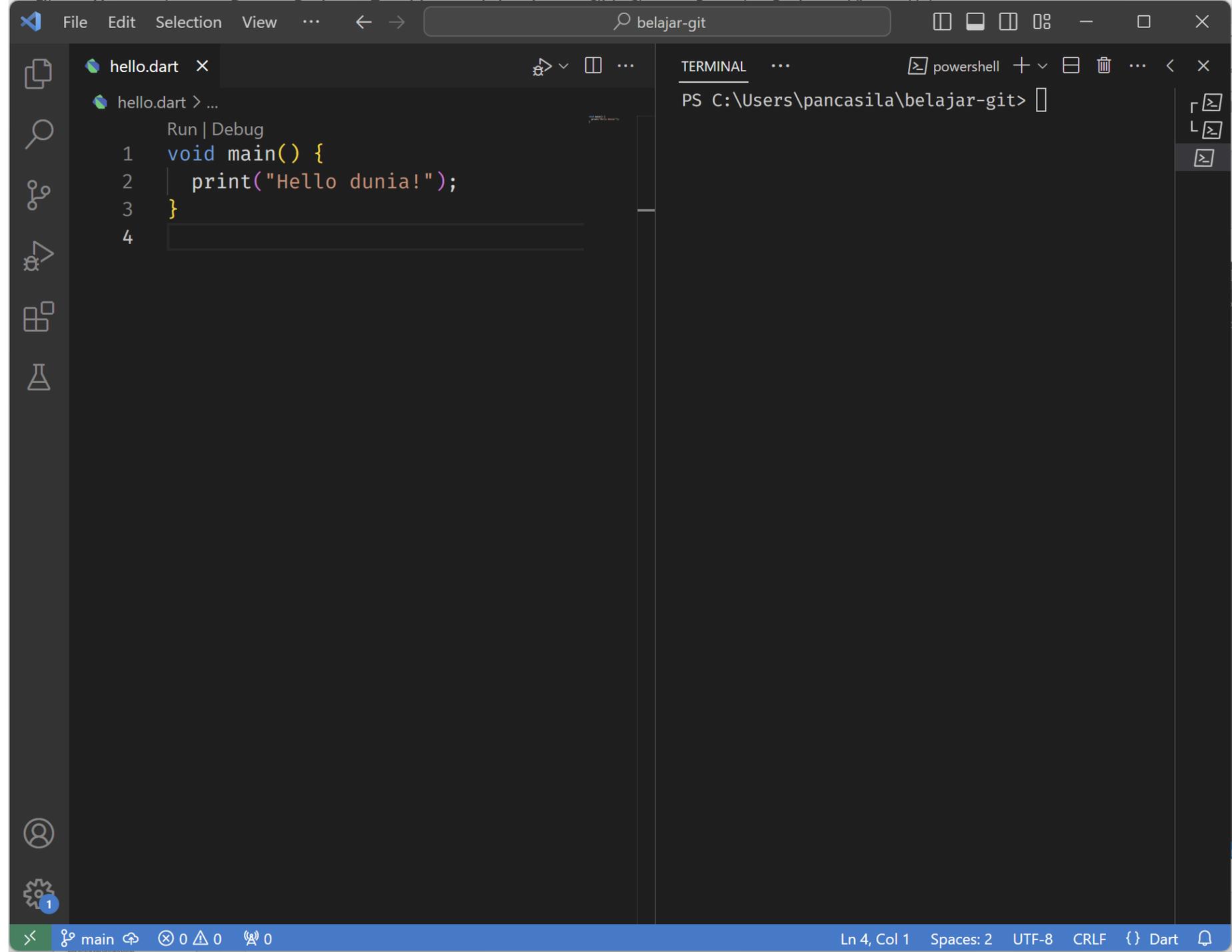
- Pindah ke folder belajar-git

```
$ cd belajar-git
```

- Buat file dart di belajar-git menggunakan Visual Code

```
$ code .
```

Membuat file hello.dart
di dalam belajar-git

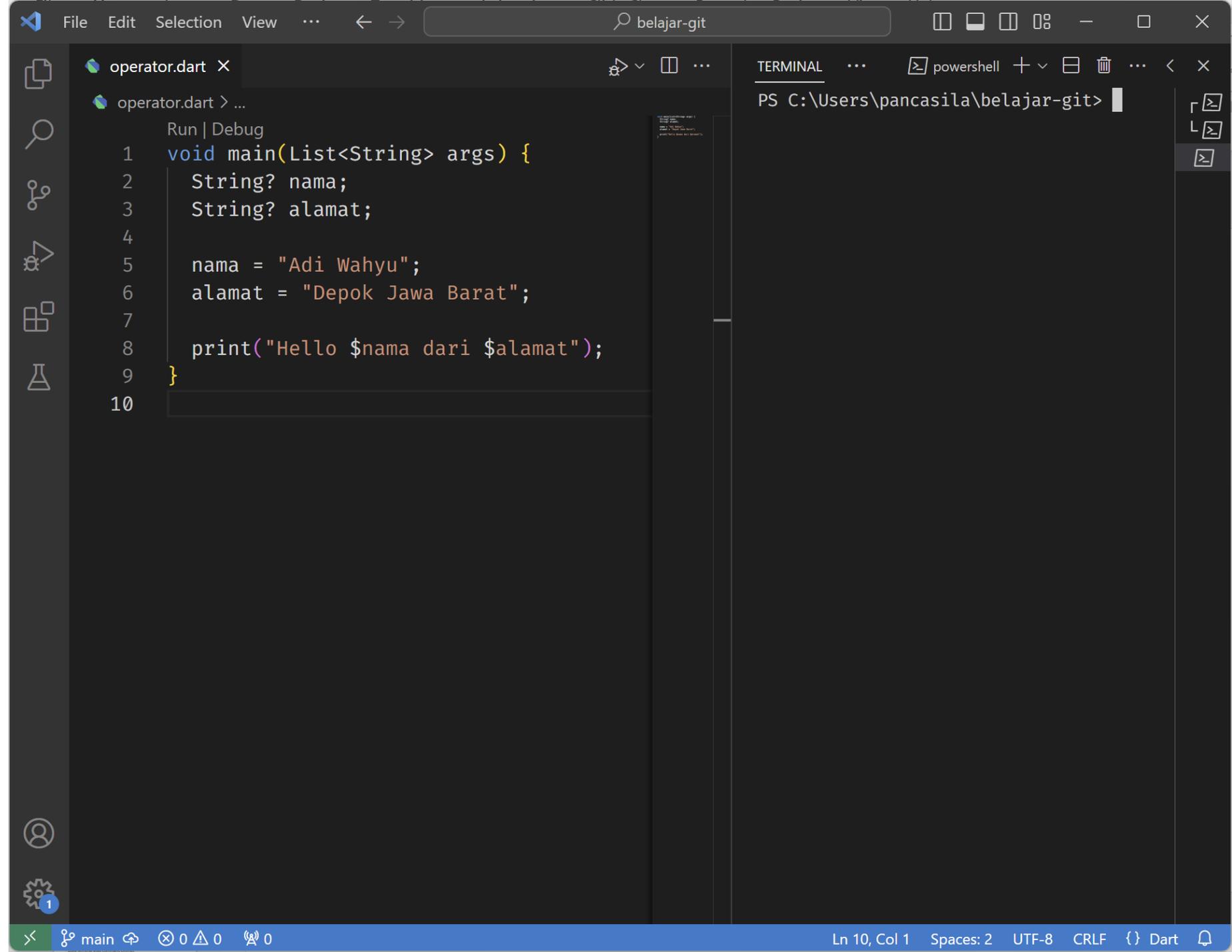


The screenshot shows an IDE window with a dark theme. The top menu bar includes 'File', 'Edit', 'Selection', 'View', and a search bar containing 'belajar-git'. The main editor area displays a file named 'hello.dart' with the following code:

```
hello.dart > ...  
Run | Debug  
1 void main() {  
2   print("Hello dunia!");  
3 }  
4
```

To the right of the editor is a 'TERMINAL' panel with a PowerShell prompt: 'PS C:\Users\pancasila\belajar-git>'. The bottom status bar shows 'main', '0', '0', '0', 'Ln 4, Col 1', 'Spaces: 2', 'UTF-8', 'CRLF', and 'Dart'.

Membuat file
operator.dart di dalam
belajar-git



The image shows a screenshot of the Visual Studio Code editor interface. The main editor window displays a Dart file named `operator.dart` with the following code:

```
1 void main(List<String> args) {  
2   String? nama;  
3   String? alamat;  
4  
5   nama = "Adi Wahyu";  
6   alamat = "Depok Jawa Barat";  
7  
8   print("Hello $nama dari $alamat");  
9 }  
10
```

The terminal window on the right shows the PowerShell prompt: `PS C:\Users\pancasila\belajar-git>`. The status bar at the bottom indicates the current file is `main`, with 0 errors, 0 warnings, and 0 info messages. The status bar also shows the current line and column as `Ln 10, Col 1`, the encoding as `UTF-8`, the line ending as `CRLF`, and the language as `Dart`.

Membuat Repository di Github

- Buka Github
- Klik tombol “New Repository”
- Beri nama repository “belajar-git”
- Tidak usah centang opsi “Initialize this repository with a README”
- Klik tombol “Create repository”

Inisialisasi Git di Folde Lokal (belajar-git)

- Buka terminal atau command prompt
- Arahkan ke folder “belajar-git”
- Ketikkan perintah \$ git init

```
C:\Users\pancasila\belajar-git          Wifi UP Terkonfigurasi
λ git init
Initialized empty Git repository in C:/Users/pancasila/belajar-git/.git/
```

Menambahkan Remote Repository

- Ketikkan perintah berikut:

```
$ git remote add origin https://github.com/adiwp/belajar-git
```

- Tambahkan seluruh file ke staging

```
$ git add .
```

```
C:\Users\pancasila\belajar-git(main)  
λ git remote add origin https://github.com/adiwp/belajar-git  
  
C:\Users\pancasila\belajar-git(main)  
λ git add .
```

Commit File

- Ketikkan perintah

```
$ git commit -m "belajar git dengan menulis kode dart"
```

```
C:\Users\pancasila\belajar-git(main)  
λ git commit -m "belajar git dengan menulis kode dart" resensi Anda u  
[main (root-commit) 6f9825f] belajar git dengan menulis kode dart  
2 files changed, 12 insertions(+)  
create mode 100644 hello.dart  
create mode 100644 operator.dart
```

Push Project ke Github

- Ketikkan perintah berikut:

```
$ git push origin main
```

```
C:\Users\pancasila\belajar-git(main)
λ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 443 bytes | 443.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/adiwp/belajar-git
 * [new branch]      main -> main
```

Keterangan Perintah

- `git init` → menginisialisasi Git di folder "belajar-git".
- `git remote add origin https://github.com/<username>/belajar-git.git`: → menambahkan remote repository Github dengan nama "origin".
- `git add .` → menambahkan semua file di folder "belajar-git" ke staging area.
- `git commit -m "Initial commit"` → membuat commit dengan pesan "Initial commit".
- `git push origin main` → push file yang telah di commit ke branch "main" di remote repository "origin".

Repository adiwp/belajar-git

The screenshot shows a GitHub repository page for 'adiwp/belajar-git'. The page is viewed in a browser with the URL 'github.com/adiwp/belajar-git'. The repository is public and has 0 stars, 0 forks, and 1 watcher. The main branch is 'main'. The repository contains three files: 'fitur-oop', 'hello.dart', and 'operator.dart'. The 'fitur-oop' folder was added 4 hours ago, while 'hello.dart' and 'operator.dart' were added 5 hours ago. The repository has 2 commits. The README section is currently empty, with a prompt to 'Add a README' to help people understand the project. The right sidebar shows the 'About' section with no description, website, or topics provided. The 'Releases' section shows no published releases, and the 'Packages' section shows no published packages. The 'Languages' section shows that the repository is 100% Dart.

adiwp / belajar-git

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

belajar-git Public

Pin Unwatch 1 Fork 0 Star 0

main Go to file + Code

adiwp Menambahkan fitur OOP 0d3882e · 4 hours ago 2 Commits

fitur-oop	Menambahkan fitur OOP	4 hours ago
hello.dart	belajar git dengan menulis kode dart	5 hours ago
operator.dart	belajar git dengan menulis kode dart	5 hours ago

README

Add a README

Help people interested in this repository understand your project by adding a README.

Add a README

About

No description, website, or topics provided.

Activity

0 stars

1 watching

0 forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

Languages

Dart 100.0%

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Membuat branch fitur-oop

- Langkah selanjutnya kita membuat branch local bernama `fitur-oop` dan kemudian berpindah ke branch tersebut.

- Ketikkan perintah:

```
$ git checkout -b fitur-oop
```

- Lalu membuat folder fitur-oop di dalam folder belajar-git

```
$ mkdir fitur-oop
```

```
C:\Users\pancasila\belajar-git(main)
```

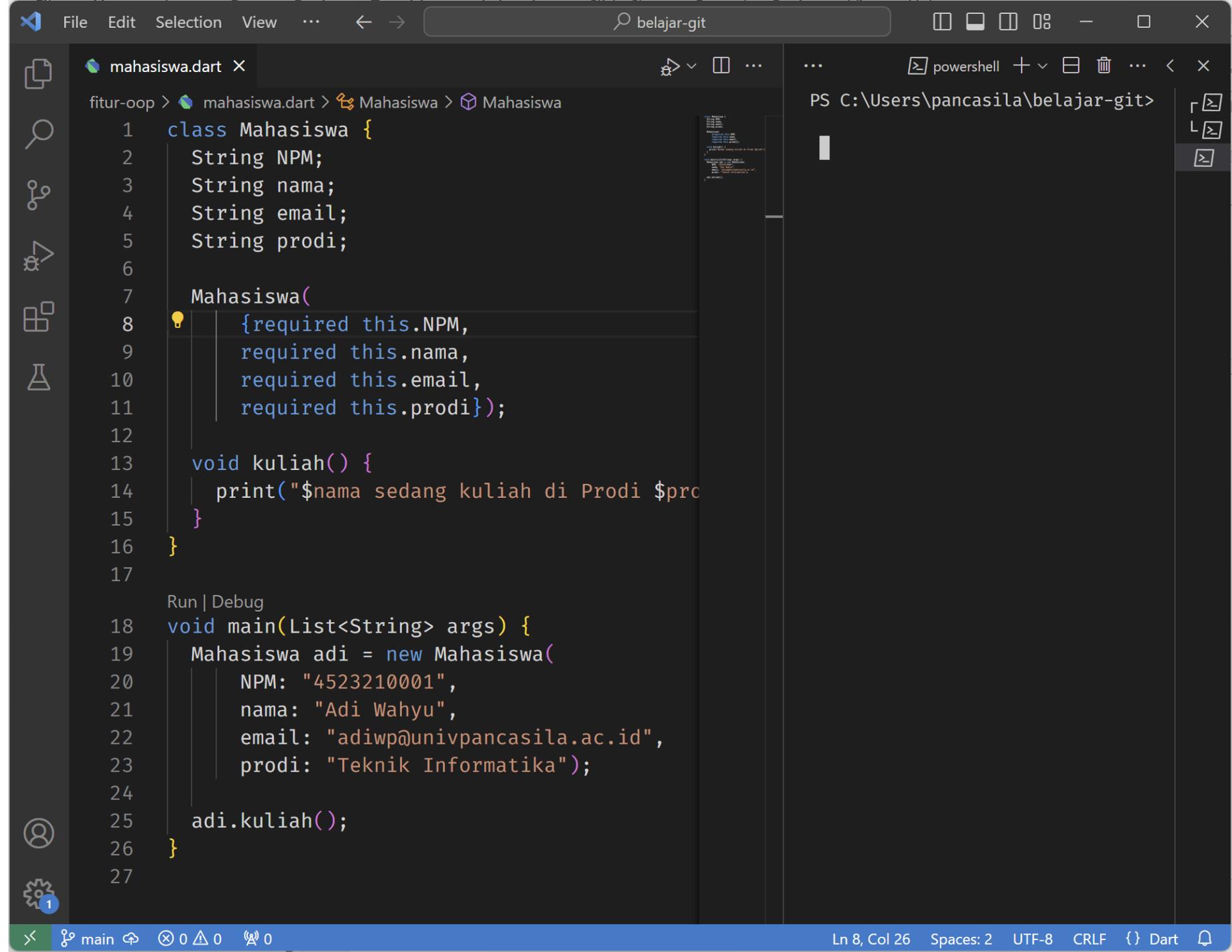
```
λ git checkout -b fitur-oop
```

```
Switched to a new branch 'fitur-oop'
```

```
C:\Users\pancasila\belajar-git(fitur-oop)
```

```
λ mkdir fitur-oop
```

Sekarang
mari kita
buat file di
fitur-oop



The screenshot shows an IDE window with a file named 'mahasiswa.dart'. The code defines a 'Mahasiswa' class with attributes 'NPM', 'nama', 'email', and 'prodi'. It includes a constructor 'Mahasiswa()' that requires all these attributes and a 'kuliah()' method that prints the student's name and program. A 'main' function creates an instance of 'Mahasiswa' with specific values and calls the 'kuliah()' method.

```
1 class Mahasiswa {
2     String NPM;
3     String nama;
4     String email;
5     String prodi;
6
7     Mahasiswa(
8         {required this.NPM,
9         required this.nama,
10        required this.email,
11        required this.prodi});
12
13    void kuliah() {
14        print("$nama sedang kuliah di Prodi $prodi");
15    }
16 }
17
18 void main(List<String> args) {
19     Mahasiswa adi = new Mahasiswa(
20         NPM: "4523210001",
21         nama: "Adi Wahyu",
22         email: "adiwp@univpancasila.ac.id",
23         prodi: "Teknik Informatika");
24
25     adi.kuliah();
26 }
27
```

Run | Debug

PS C:\Users\pancasila\belajar-git>

Ln 8, Col 26 Spaces: 2 UTF-8 CRLF {} Dart

Melakukan Perubahan di Branch “fitur-oop”

- Setelah membuat Mahasiswa.dart mari kita tambahkan file ke staging area dan melakukan commit

```
$ git add .
```

```
$ git commit -m “Menambahkah fitur OOP”
```

```
C:\Users\pancasila\belajar-git(fitur-oop)
λ git add .

C:\Users\pancasila\belajar-git(fitur-oop)
λ git commit -m "Menambahkan fitur OOP"
[fitur-oop 0d3882e] Menambahkan fitur OOP
1 file changed, 26 insertions(+)
create mode 100644 fitur-oop/mahasiswa.dart
```

Push Branch “fitur-oop” ke Github

- Push branch “fitur-oop” ke remote repository “origin”

```
C:\Users\pancasila\belajar-git(fitur-oop)
λ git push origin fitur-oop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 642 bytes | 642.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'fitur-oop' on GitHub by visiting:
remote:   https://github.com/adiwp/belajar-git/pull/new/fitur-oop
remote:
To https://github.com/adiwp/belajar-git
 * [new branch]   fitur-oop -> fitur-oop
```

Branch “fitur-oop” di Github

The screenshot shows a GitHub repository page for 'belajar-git' (Public). The repository is currently on the 'fitur-oop' branch, which is up to date with the 'main' branch. The repository has 0 stars, 0 forks, and 1 watcher. The commit history shows a recent commit by 'adiwp' titled 'Menambahkan fitur OOP' with 2 commits, made 5 hours ago. The repository contains three files: 'fitur-oop', 'hello.dart', and 'operator.dart', all updated 5 hours ago. The README section is currently empty, with a prompt to 'Add a README' and a button labeled 'Add a README'. The right sidebar shows the repository's activity, including 0 stars, 1 watcher, and 0 forks. The footer of the page includes links for Terms, Privacy, Security, Status, Docs, Contact, Manage cookies, and Do not share my personal information.

github.com/adiwp/belajar-git/tree/fitur-oop

adiwp / belajar-git

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

belajar-git Public Pin Unwatch 1 Fork 0 Star 0

fitur-oop Go to file Code

This branch is up to date with main. Contribute

adiwp Menambahkan fitur OOP 0d3882e · 5 hours ago 2 Commits

fitur-oop	Menambahkan fitur OOP	5 hours ago
hello.dart	belajar git dengan menulis kode dart	5 hours ago
operator.dart	belajar git dengan menulis kode dart	5 hours ago

README

Add a README

Help people interested in this repository understand your project by adding a README.

Add a README

About
No description, website, or topics provided.

Activity
0 stars
1 watching
0 forks

Releases
No releases published
[Create a new release](#)

Packages
No packages published
[Publish your first package](#)

Languages
Dart 100.0%

Terms Privacy Security Status Docs Contact Manage cookies Do not share my personal information

Merge branch “main” dan “fitur-oop”

- Di Local pindah ke branch main

\$ git checkout main

- Merget “fitur-oop”

\$ git merge fitur-oop

```
C:\Users\pancasila\belajar-git(fitur-oop)
```

```
λ git checkout main
```

```
Switched to branch 'main'
```

```
C:\Users\pancasila\belajar-git(main)
```

```
λ git merge fitur-oop
```

```
Updating 6f9825f..0d3882e
```

```
Fast-forward
```

```
fitur-oop/mahasiswa.dart | 26 ++++++
```

```
1 file changed, 26 insertions(+)
```

```
create mode 100644 fitur-oop/mahasiswa.dart
```

Push hasil Merge ke Github

```
$ git push origin main
```

```
C:\Users\pancasila\belajar-git(main)  
λ git push origin main  
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0  
To https://github.com/adiwp/belajar-git  
6f9825f..0d3882e main -> main
```

 belajar-git Public

 main ▾



Switch branches/tags



Branches

Tags

✓ main

default

fitur-oop

[View all branches](#)