

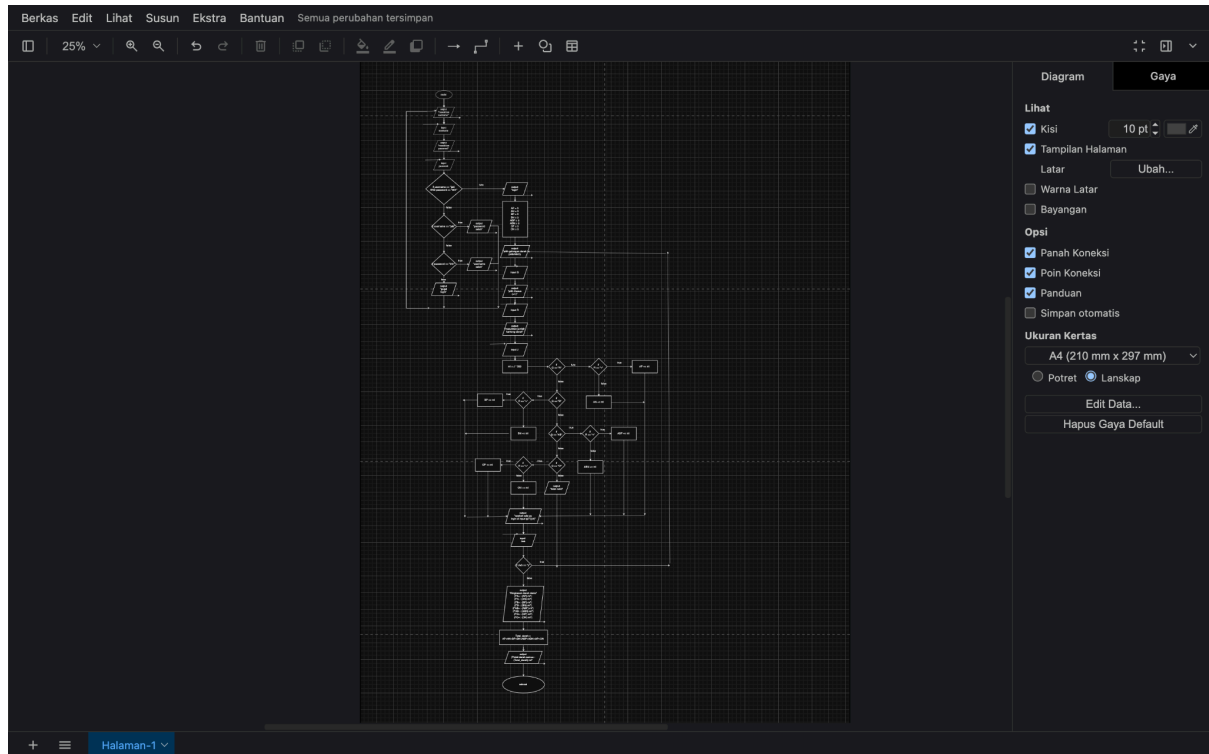
LAPORAN PRAKTIKUM
POSTTEST (4)
ALGORITMA PEMROGRAMAN DASAR



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1. Flowchart



Mulai (Start)

Input login:

- Masukkan *username* dan *password*.
- Jika *username* == "jaki" dan *password* == "061", maka login berhasil.
- Jika salah satu salah, tampilkan pesan error sesuai kesalahannya ("password salah" atau "username salah").
- Jika keduanya salah, tampilkan "gagal login".

Inisialisasi variabel darah:

Semua golongan darah (A+, A-, B+, B-, AB+, AB-, O+, O-) diset ke 0 ml.

Input data donor darah:

- Pilih golongan darah (A/B/AB/O).
- Pilih rhesus (+/-).
- Masukkan jumlah kantong darah.
- Setiap kantong bernilai 500 ml → total ml = jumlah × 500.

Update total darah:

Tambahkan hasil input ke variabel golongan darah yang sesuai.

Jika golongan atau rhesus tidak valid → tampilkan "tidak valid".

Tanya pengguna:

Apakah ingin input lagi?

- Jika "y", kembali ke proses input darah.

- Jika “t”, lanjut ke ringkasan.

Tampilkan ringkasan:

- Cetak total untuk masing-masing golongan darah (A+, A-, B+, B-, AB+, AB-, O+, O-).
- Hitung dan tampilkan total seluruh darah.

Selesai (End)

2. Deskripsi Singkat Program

Deskripsi Singkat Program:

Program “Darah Denis” dibuat untuk mencatat dan menghitung jumlah darah yang didonorkan berdasarkan golongan darah (A, B, AB, O) dan rhesus (+/-). Program ini juga dilengkapi dengan sistem login sederhana agar hanya pengguna tertentu yang dapat mengaksesnya.

Fungsi utama program ini adalah untuk mengelompokkan dan menghitung total darah yang terkumpul dalam satuan mililiter, sehingga memudahkan proses pendataan dan rekap hasil donor darah. Selain itu, program ini juga bermanfaat untuk melatih logika pemrograman menggunakan percabangan (if-else) dan perulangan (looping) dalam pengolahan data sederhana.

3. Source Code

Source Code:

```
print("=== Program darah denis ===")

while True:

    username = input("Masukkan username: ").lower()

    while username == "":

        username = input("Masukkan username nya bang!!!: ").lower()

    password = input("Masukkan password: ")

    while password == "":

        password = input("Masukkan password nya bang!!!: ")

    if username == "jaki" and password == "061":

        print("Login")

        break

    elif username != "jaki":

        print("username salah")

    elif password != "061":

        print("password salah")

    else:

        print("Gagal login")

AP = 0

AN = 0

BP = 0

BN = 0

ABP = 0

ABN = 0

OP = 0

ON = 0

while True:
```

```

G = input("Masukkan golongan darah (A/B/AB/O) : ").upper().strip()

if G not in ["A", "B", "AB", "O"]:

    print("golongan darah tidak ada")

    continue

R = input("Masukkan Rhesus (+/-) : ")

if R not in ["+", "-"]:

    print("Rhesus tidak termasuk")

    continue

J = int(input("Masukkan jumlah kantong darah: "))

if J == "0":

    print ("harus lebih dari 0.")

    continue

J = int(J)

ml = J * 500

if G == "A":

    if R == "+":

        AP += ml

    else:

        AN += ml

elif G == "B":

    if R == "+":

        BP += ml

    else:

        BN += ml

elif G == "AB":

    if R == "+":

        ABP += ml

    else:

```

```

        ABN += ml

    elif G == "O":

        if R == "+":

            OP += ml

        else:

            ON += ml

    ulang = input("\nApakah Anda masih mau input lagi? (Y/T): ").lower()

    if ulang != "y":

        break

print("RINGKASAN STOK DARAH DENIS")

print(f"A+   : {AP} ml")

print(f"A-   : {AN} ml")

print(f"B+   : {BP} ml")

print(f"B-   : {BN} ml")

print(f"AB+  : {ABP} ml")

print(f"AB-  : {ABN} ml")

print(f"O+   : {OP} ml")

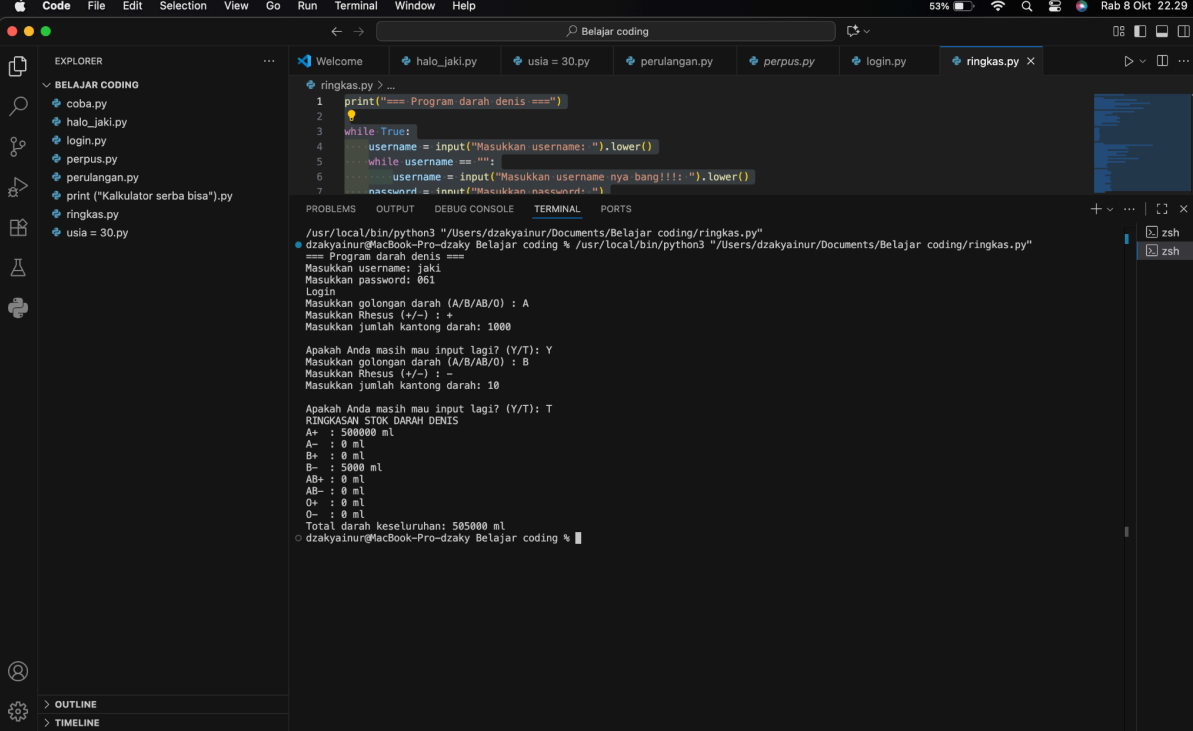
print(f"O-   : {ON} ml")

Tdarah = AP + AN + BP + BN + ABP + ABN + OP + ON

print(f"Total darah keseluruhan: {Tdarah} ml")

```

4. Hasil Output



The screenshot shows a VS Code editor window with a file explorer on the left and a terminal at the bottom. The file explorer shows a directory named 'BELAJAR CODING' containing several Python files. The terminal displays the output of a Python script named 'ringkas.py'.

```
ringkas.py > ...
1 print("=== Program darah denis ===")
2
3 while True:
4     username = input("Masukkan username: ").lower()
5     while username == "":
6         username = input("Masukkan username nya bang!!!: ").lower()
7     password = input("Masukkan password: ")
8
9     == Program darah denis ==
10    Masukkan username: jaki
11    Masukkan password: 061
12    Login
13    Masukkan golongan darah (A/B/AB/O) : A
14    Masukkan Rhesus (+/-) : +
15    Masukkan jumlah kantong darah: 1000
16
17    Apakah Anda masih mau input lagi? (Y/T): Y
18    Masukkan golongan darah (A/B/AB/O) : B
19    Masukkan Rhesus (+/-) : -
20    Masukkan jumlah kantong darah: 10
21
22    Apakah Anda masih mau input lagi? (Y/T): T
23    RINGKASAN STOK DARAH DENIS
24    A+ : 500000 ml
25    A- : 0 ml
26    B+ : 0 ml
27    B- : 5000 ml
28    AB+ : 0 ml
29    AB- : 0 ml
30    O+ : 0 ml
31    O- : 0 ml
32    Total darah keseluruhan: 505000 ml
33
34 dzakyainur@MacBook-Pro-dzaky Belajar coding %
```

5. Langkah-langkah GIT

5.1 GIT Add

```
dzakyainur@MacBook-Pro-dzaky Pratikum-apd % git init
Reinitialized existing Git repository in /Users/dzakyainu
dzakyainur@MacBook-Pro-dzaky Pratikum-apd % git add .
dzakyainur@MacBook-Pro-dzaky Pratikum-apd % git commit -m "posttest4"
```

Menambahkan file yang sudah diubah ke *staging area* (persiapan sebelum disimpan ke repositori).

5.2 GIT Commit

```
dzakyainur@MacBook-Pro-dzaky Pratikum-apd % git commit -m "posttest4"
[main 7683221] posttest4
Committer: dzaky ainur <dzakyainur@MacBook-Pro-dzaky.local>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

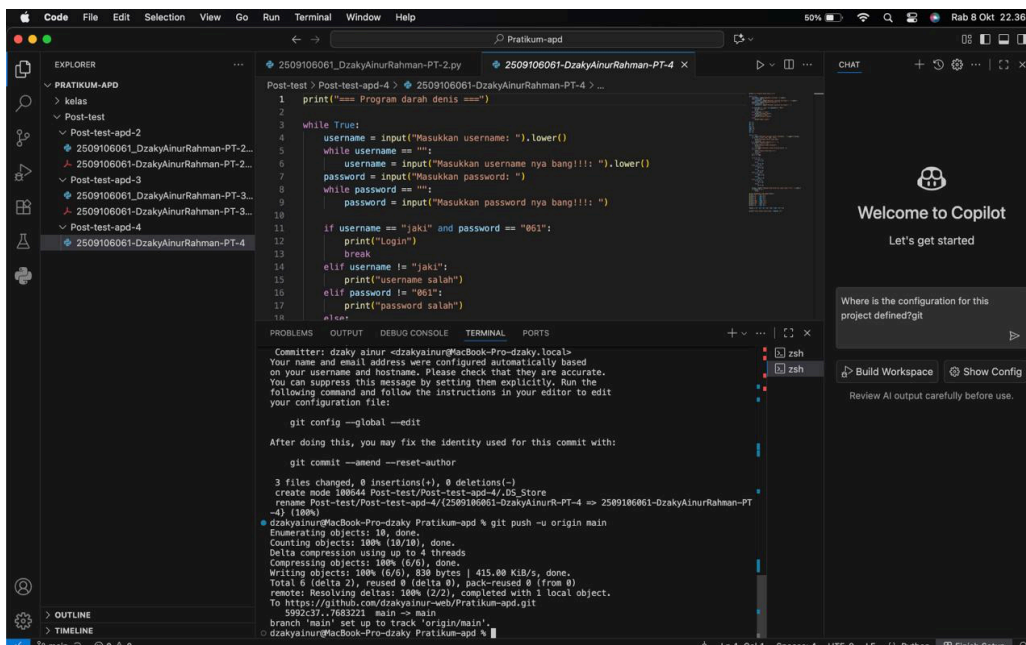
After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Post-test/Post-test-apd-4/.DS_Store
rename Post-test/Post-test-apd-4/{2509106061-DzakyAinurR-PT-4 => 2509106061-DzakyAinurRahman-PT-4} (100%)
dzakyainur@MacBook-Pro-dzaky Pratikum-apd % git push -u origin main
```

Menyimpan perubahan yang ada di *staging area* ke dalam repositori lokal disertai pesan (*commit message*).

5.3 GIT Push



```
1 print("== Program darah denis ==")
2
3 while True:
4     username = input("Masukkan username: ").lower()
5     while username == "":
6         username = input("Masukkan username nya bang!!!: ").lower()
7     password = input("Masukkan password: ")
8     while password == "":
9         password = input("Masukkan password nya bang!!!: ")
10
11     if username == "jeki" and password == "061":
12         print("Login")
13         break
14     elif username != "jeki":
15         print("username salah")
16     elif password != "061":
17         print("password salah")
18 else:
19     pass
```

```
Committer: dzaky ainur <dzakyainur@MacBook-Pro-dzaky.local>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Post-test/Post-test-apd-4/.DS_Store
rename Post-test/Post-test-apd-4/{2509106061-DzakyAinurR-PT-4 => 2509106061-DzakyAinurRahman-PT-4} (100%)
dzakyainur@MacBook-Pro-dzaky Pratikum-apd % git push -u origin main
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 4 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 836 bytes | 415.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/dzakyainur-web/Pratikum-apd.git
992c37..768322 main -> main
branch 'main' set up to track 'origin/main'
dzakyainur@MacBook-Pro-dzaky Pratikum-apd %
```

Mengirim (*upload*) hasil commit dari repositori lokal ke repositori remote (misalnya GitHub).