

LAPORAN TUGAS PRAKTIKUM PROGRAM KOMPUTER



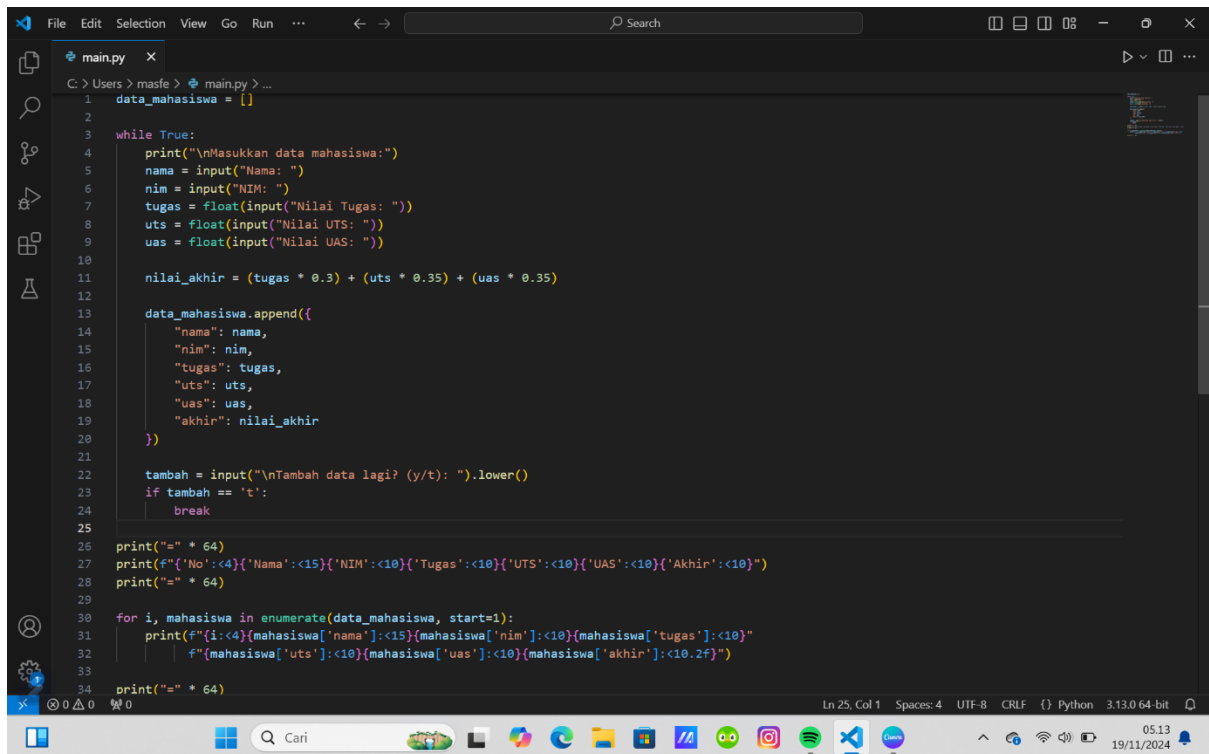
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A screenshot of a Python IDE window titled 'main.py'. The code is a Python script for managing student data. It starts with an empty list 'data_mahasiswa'. A 'while True' loop prompts the user to enter student data: name, NIM, Tugas, UTS, and UAS. It then calculates the final score 'nilai_akhir' as a weighted average: (Tugas * 0.3) + (UTS * 0.35) + (UAS * 0.35). The data is appended to the list. The user is asked if they want to add more data ('y/t'). If 't' is entered, the loop breaks. After the loop, the program prints a header and a table of the collected data. The table has columns for No, Nama, NIM, Tugas, UTS, UAS, and Akhir. The status bar at the bottom shows 'Ln 25, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'Python', and '3.13.0 64-bit'. The Windows taskbar is visible at the very bottom with the time '05:13' and date '19/11/2024'.

```
1 data_mahasiswa = []
2
3 while True:
4     print("\nMasukkan data mahasiswa:")
5     nama = input("Nama: ")
6     nim = input("NIM: ")
7     tugas = float(input("Nilai Tugas: "))
8     uts = float(input("Nilai UTS: "))
9     uas = float(input("Nilai UAS: "))
10
11     nilai_akhir = (tugas * 0.3) + (uts * 0.35) + (uas * 0.35)
12
13     data_mahasiswa.append({
14         "nama": nama,
15         "nim": nim,
16         "tugas": tugas,
17         "uts": uts,
18         "uas": uas,
19         "akhir": nilai_akhir
20     })
21
22     tambah = input("\nTambah data lagi? (y/t): ").lower()
23     if tambah == 't':
24         break
25
26 print("=" * 64)
27 print(f"{'No':<4}{ 'Nama':<15}{ 'NIM':<10}{ 'Tugas':<10}{ 'UTS':<10}{ 'UAS':<10}{ 'Akhir':<10}")
28 print("=" * 64)
29
30 for i, mahasiswa in enumerate(data_mahasiswa, start=1):
31     print(f"{'{1:<4}{mahasiswa['nama']:<15}{mahasiswa['nim']:<10}{mahasiswa['tugas']:<10}'"
32           f"{'{mahasiswa['uts']:<10}{mahasiswa['uas']:<10}{mahasiswa['akhir']:<10.2f}'")
33
34 print("=" * 64)
```

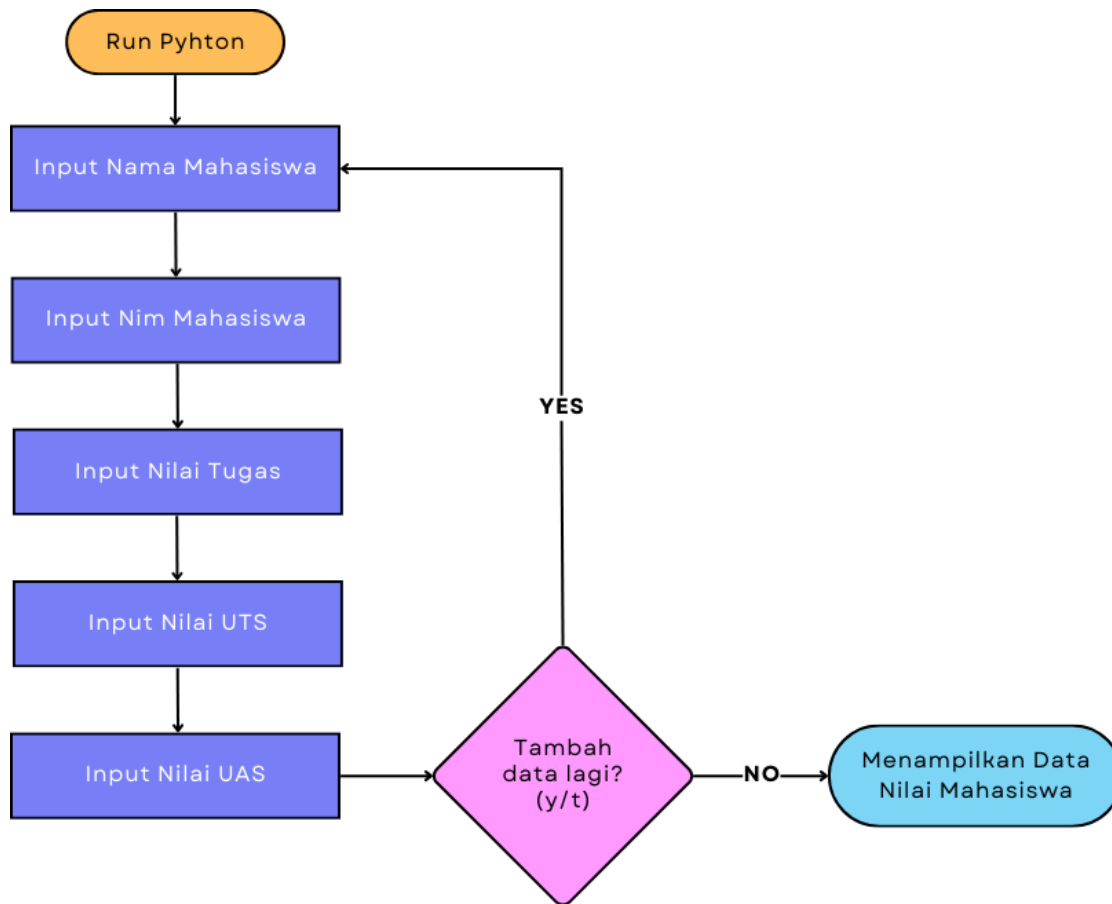
Program Pengelola Data Nilai Akhir Mahasiswa

Deskripsi Program

Program ini dibuat untuk mencatat data nilai akhir mahasiswa, data ini menghitung nilai akhir berdasarkan tiga komponen nilai yaitu nilai Tugas, nilai UTS, dan nilai UAS dengan presentase nilai yang sudah ditentukan. Program ini dapat digunakan secara berulang hingga pengguna memutuskan untuk berhenti menambahkan data.

Langkah-langkah menggunakan program

1. Jalankan program
2. Input nama mahasiswa
3. Input NIM
4. Input nilai Tugas
5. Input nilai UTS
6. Input nilai UAS
7. Tekan (y) jika ingin memasukkan data lagi
8. Tekan (t) jika sudah selesai
9. Program akan menampilkan tabel berisi perhitungan nilai



Tampilan program data nilai akhir

The screenshot shows a Windows terminal window with the following content:

```

PS C:\Users\masfe> & C:/Users/masfe/AppData/Local/Programs/Python/Python313/python.exe c:/Users/masfe/main.py

Masukkan data mahasiswa:
Nama: Ari
NIM: 1234
Nilai Tugas: 70
Nilai UTS: 65
Nilai UAS: 80

Tambah data lagi? (y/t): y

Masukkan data mahasiswa:
Nama: Bambang
NIM: 2345
Nilai Tugas: 65
Nilai UTS: 80
Nilai UAS: 90

Tambah data lagi? (y/t): t
=====
No Nama      NIM      Tugas  UTS    UAS    Akhir
=====
1 Ari        1234     70.0   65.0   80.0   71.75
2 Bambang    2345     65.0   80.0   90.0   79.00
=====
PS C:\Users\masfe>
  
```

The terminal output shows the program successfully processing two students: Ari and Bambang. After the second student's data is entered, the program displays a table of all entered data. The table has columns for 'No', 'Nama', 'NIM', 'Tugas', 'UTS', 'UAS', and 'Akhir'. The 'Akhir' column shows the calculated average score for each student. The program then prompts the user to add more data, which is declined with 't'.