
Basic Python: Student Grade Evaluation Program

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Kelas: Faculty Of Data | #DigitalSkillFair40

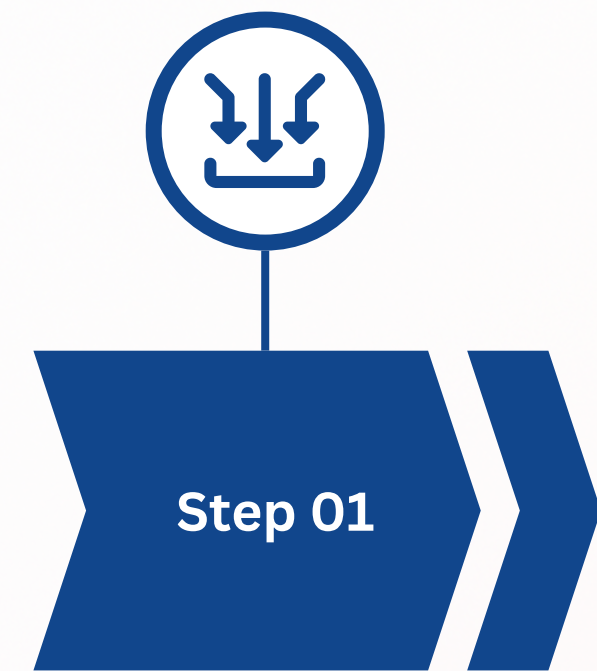
Program @dibimbing.id

Project Objective

The objective of this project is to create a basic Python program that takes user input including student name, student ID, and exam score. The program will check the data type of each input, then use an if-elif-else control structure to determine the grade category based on a predefined score range. This project is designed to strengthen foundational understanding of input/output, data type checking, and decision-making in programming.

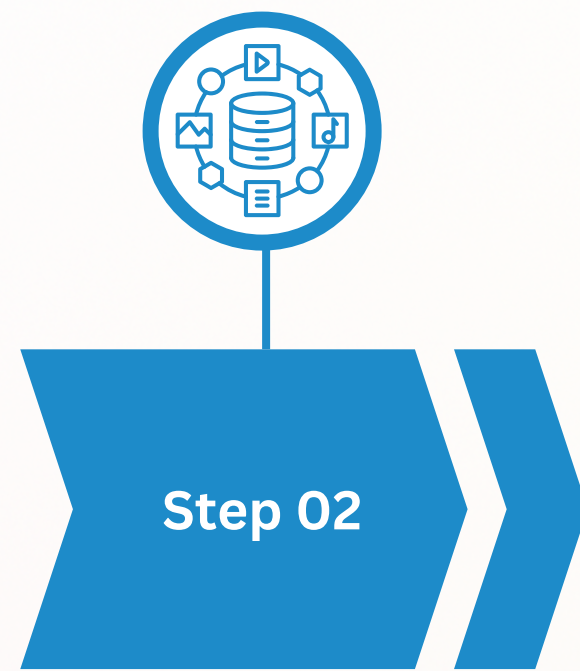


Program Logic Design



Receive User Input

- Student name (str)
- Student ID (str)
- Exam score (int)



Check Data Types

Use the `type()` function to display the data type of each input



Determine Grade Category

Use an if-elif-else control structure to categorize the score:

- 85–100 → A (Excellent)
- 75–84 → B (Good)
- 60–74 → C (Average)
- 40–59 → D (Poor)
- <40 → E (Very Poor)



Display Evaluation Result

The output includes:

- Student name and ID
- Exam score
- Grade category

Syntax

```
nama = input("Masukkan Nama Mahasiswa: ")
nim = input("Masukkan NIM: ")
nilai = int(input("Masukkan Nilai Ujian: "))

print("\n")
print(f"{nama} (Type: {type(nama)})")
print(f"{nim} (Type: {type(nim)})")
print(f"{nilai} (Type: {type(nilai)})")
print("\n")

if (nilai >= 85 and nilai <= 100):
    print(f"Hasil Evaluasi: \nMahasiswa: {nama} (NIM: {nim}) \nNilai Ujian: {nilai} \nKategori Nilai: A (Sangat Baik)")
elif (nilai >= 75 and nilai < 85):
    print(f"Hasil Evaluasi: \nMahasiswa: {nama} (NIM: {nim}) \nNilai Ujian: {nilai} \nKategori Nilai: B (Baik)")
elif (nilai >= 60 and nilai < 75):
    print(f"Hasil Evaluasi: \nMahasiswa: {nama} (NIM: {nim}) \nNilai Ujian: {nilai} \nKategori Nilai: C (Cukup)")
elif (nilai >= 40 and nilai < 60):
    print(f"Hasil Evaluasi: \nMahasiswa: {nama} (NIM: {nim}) \nNilai Ujian: {nilai} \nKategori Nilai: D (Kurang)")
elif (nilai >= 0 and nilai < 40):
    print(f"Hasil Evaluasi: \nMahasiswa: {nama} (NIM: {nim}) \nNilai Ujian: {nilai} \nKategori Nilai: E (Sangat Kurang)")
else:
    print(f"Hasil Evaluasi: \nMahasiswa: {nama} (NIM: {nim}) \nNilai Ujian: {nilai} \nKategori Nilai: Harap input nilai dari 1-100")
```


Output Program

```
➔ Masukkan Nama Mahasiswa: Marcell  
Masukkan NIM: 12345678  
Masukkan Nilai Ujian: 80  
  
Marcell (Type: <class 'str'>)  
12345678 (Type: <class 'str'>)  
80 (Type: <class 'int'>)  
  
Hasil Evaluasi:  
Mahasiswa: Marcell (NIM: 12345678)  
Nilai Ujian: 80  
Kategori Nilai: B (Baik)
```

The output shows the program successfully:

- Receives name, student ID, and score input
- Checks data types
- Determines grade category (80 = B / Good)



Insights from the Mini Project

- Learned how to take user input in Python
- Understood data types and how to check them (str, int)
- Practiced basic programming logic using if-elif-else
- Improved formatting output to be clear and user-friendly

Thank You.

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