1. Buatlah program menghitung nilai mahasiswa!

Jawab :

Source Code 1:

class Mahasiswa:

def \_\_init\_\_(self, nim, nama):

self.nim = nim

self.nama = nama

def validate\_input(self, prompt, data\_type):

while True:

try:

value = data\_type(input(prompt))

return value

except ValueError:

print("Input salah. Masukkan Nilai dengan tipe data yang benar (Float) !")

def hitung\_nilai(self):

nilai\_tugas\_1 = self.validate\_input("Nilai Tugas 1: ", float)

nilai\_tugas\_2 = self.validate\_input("Nilai Tugas 2: ", float)

nilai\_tugas\_3 = self.validate\_input("Nilai Tugas 3: ", float)

nilai\_uts\_mid = self.validate\_input("Nilai UTS (MID): ", float)

nilai\_uas\_final = self.validate\_input("Nilai UAS (FINAL): ", float)

nilai\_kehadiran = self.validate\_input("Nilai Kehadiran (Absensi): ", float)

total\_nilai\_tugas = (nilai\_tugas\_1 + nilai\_tugas\_2 + nilai\_tugas\_3) / 3

total\_nilai\_akhir = (total\_nilai\_tugas \* 20 / 100) +

(nilai\_uts\_mid \*30 / 100) + (nilai\_uas\_final \* 40 / 100) + (nilai\_kehadiran \* 10 / 100)

if total\_nilai\_akhir >= 85:

grade = "A"

elif total\_nilai\_akhir >= 80 and total\_nilai\_akhir <= 85:

grade = "A-"

elif total\_nilai\_akhir >= 75 and total\_nilai\_akhir <= 80:

grade = "B+"

elif total\_nilai\_akhir >= 70 and total\_nilai\_akhir <= 75:

grade = "B"

elif total\_nilai\_akhir >= 65 and total\_nilai\_akhir <= 70:

grade = "B-"

elif total\_nilai\_akhir >= 60 and total\_nilai\_akhir <= 65:

grade = "C+"

elif total\_nilai\_akhir >= 55 and total\_nilai\_akhir <= 60:

grade = "C"

elif total\_nilai\_akhir >= 40 and total\_nilai\_akhir <= 55:

grade = "D"

else:

grade = "E"

print("\nOutput Rangkuman Nilai Yang Didapat")

print("NIM:", self.nim)

print("Nama Mahasiswa:", self.nama)

print("Nilai Tugas:", total\_nilai\_tugas)

print("Nilai UTS (MID):", nilai\_uts\_mid)

print("Nilai UAS (FINAL):", nilai\_uas\_final)

print("Nilai Kehadiran (Absensi):", nilai\_kehadiran)

print("Mendapatkan Nilai Akhir:", total\_nilai\_akhir)

print("Nilai Huruf (Grade):", grade)

print("Lulus:", total\_nilai\_akhir >= 60)

Source Code 2:

from mahasiswa import Mahasiswa

print("=====================================================")

print("======== Program menghitung nilai mahasiswa =========")

print("========== CREATED BY 222362 MOCH ACHMAR ============")

print("=====================================================")

mahasiswa = Mahasiswa(input("Masukkan NIM: "),

input("Masukkan Nama Mahasiswa: "))

while True:

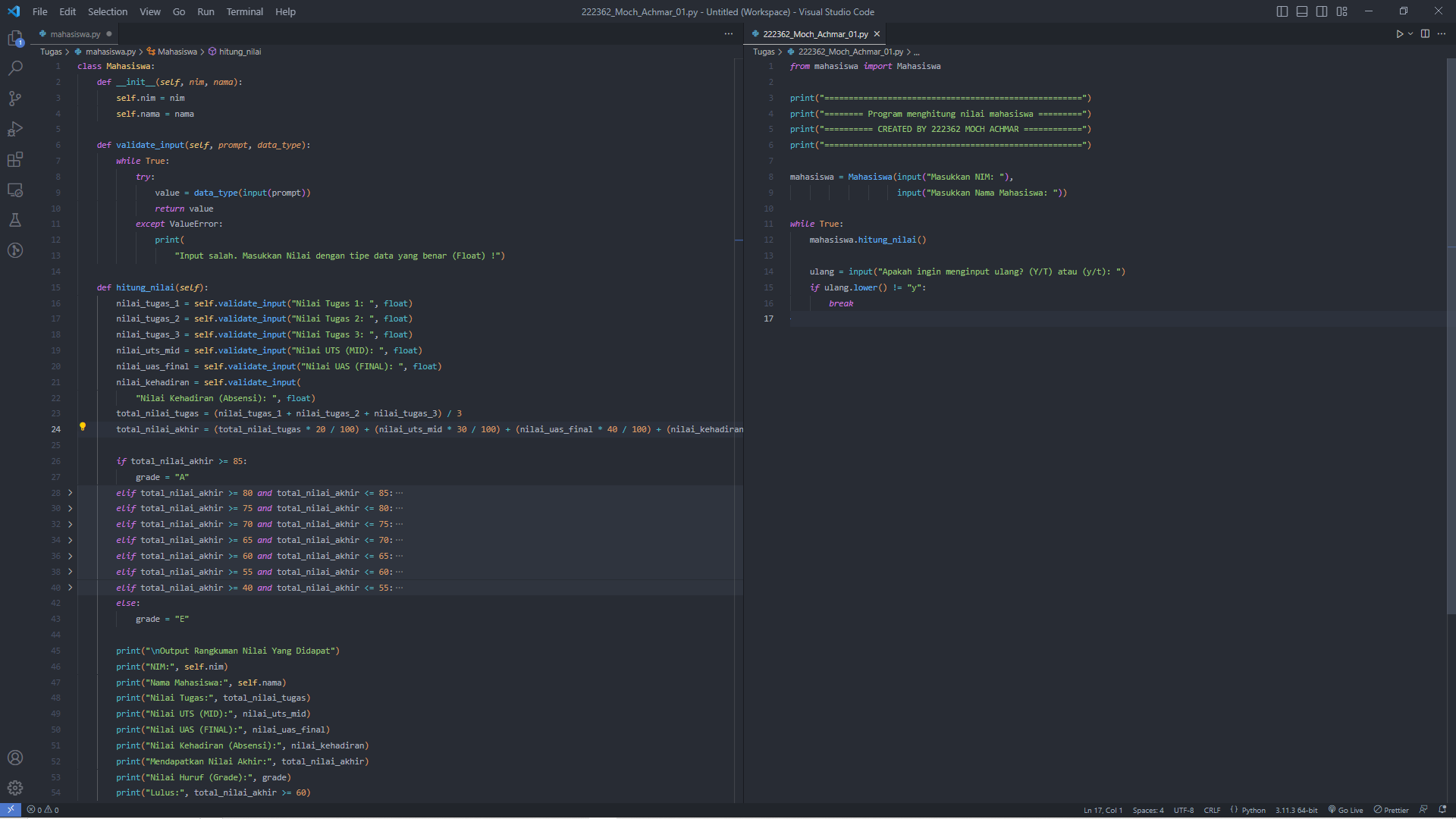
mahasiswa.hitung\_nilai()

ulang = input("Apakah ingin menginput ulang? (Y/T) atau (y/t): ")

if ulang.lower() != "y":

break

Hasil :



Hasil :

