Contoh kasus

Data

Tabel students

Table 1

id	name	nim	department	year
1	Ahmad Fauzi	20,240,101	Teknik Informatika	2,024
2	Siti Nurhaliza	20,240,102	Teknik Sipil	2,024
3	Budi Santoso	20,240,103	Manajemen	2,024

Tabel grades

Table 2

id	student_id	daily_grades	uts_grades	uas_grades
1	1	85	80	90
2	2	88	75	85
3	3	90	85	88

Data Example

1. Ahmad Fauzi: Nilai Harian 85, UTS 80, UAS 90

2. Siti Nurhaliza: Nilai Harian 88, UTS 75, UAS 85

3. Budi Santoso: Nilai Harian 90, UTS 85, UAS 88

```
class Mahasiswa:
    def __init__(self, nama):
        self.nama = nama  # Atribut nama

class Nilai:
    def __init__(self, mahasiswa, harian, uts, uas):
        self.harian = harian
        self.uts = uts
        self.uas = uas
        self.mahasiswa = mahasiswa

def hitung_nilai_akhir(self):
    harian = 0.2 * self.harian
    uts = 0.3 * self.uts
    uas = 0.5 * self.uas
```

```
self.nilai_akhir = harian+uts+uas
   def cetak_nilai_akhir(self):
       print(f"{self.mahasiswa.nama}: Nilai Harian {self.harian}, UTS {self.uts}, UAS {self.uas}, NA
{self.nilai_akhir}")
fauzi = Mahasiswa("Ahmad Fauzi")
nurhaliza = Mahasiswa("Siti Nurhaliza")
budi = Mahasiswa("Budi Santoso")
nilai_fauzi = Nilai(fauzi,85, 80, 90)
nilai_fauzi.hitung_nilai_akhir()
nilai_fauzi.cetak_nilai_akhir()
nilai_nurhaliza = Nilai(nurhaliza,88, 75, 85)
nilai_nurhaliza.hitung_nilai_akhir()
nilai_nurhaliza.cetak_nilai_akhir()
nilai_budi = Nilai(budi,90, 85, 88)
nilai_budi.hitung_nilai_akhir()
nilai_budi.cetak_nilai_akhir()
```