TUGAS PRAKTIKUM PERTEMUAN 2

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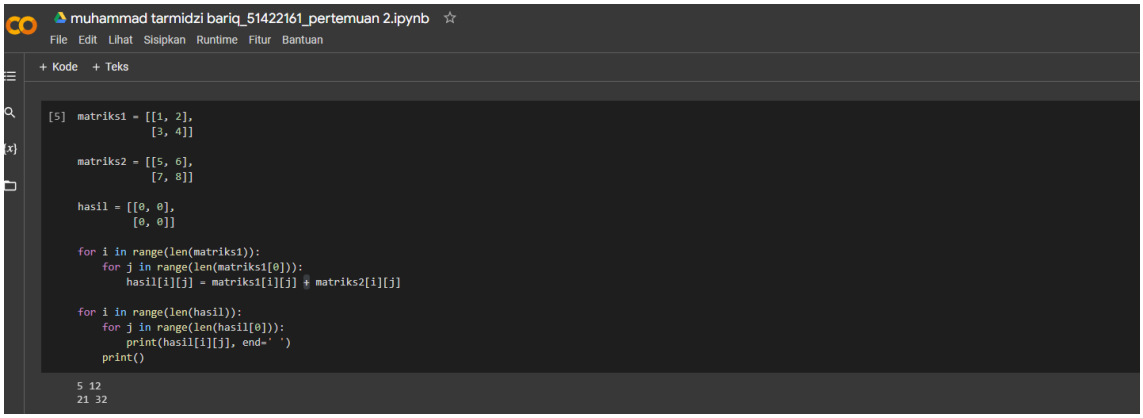
Pada contoh program di atas, sudah di buat 3 program dengan memanfaatkan library NumPy yaitu :

1. Penambahan dua matriks
2. Perkalian dua matriks
3. Transpos matriks

Tugas anda adalah membuat 3 program tersebut tanpa menggunakan library NumPy

1. Penambahan dua matriks

```
matriks1 = [[1, 2],
            [3, 4]]
matriks2 = [[5, 6],
            [7, 8]]
hasil = [[0, 0],
         [0, 0]]
for i in range(len(matriks1)):
    for j in range(len(matriks1[0])):
        hasil[i][j] = matriks1[i][j] + matriks2[i][j]
for i in range(len(hasil)):
    for j in range(len(hasil[0])):
        print(hasil[i][j], end=' ')
    print()
```



2. Perkalian dua matriks

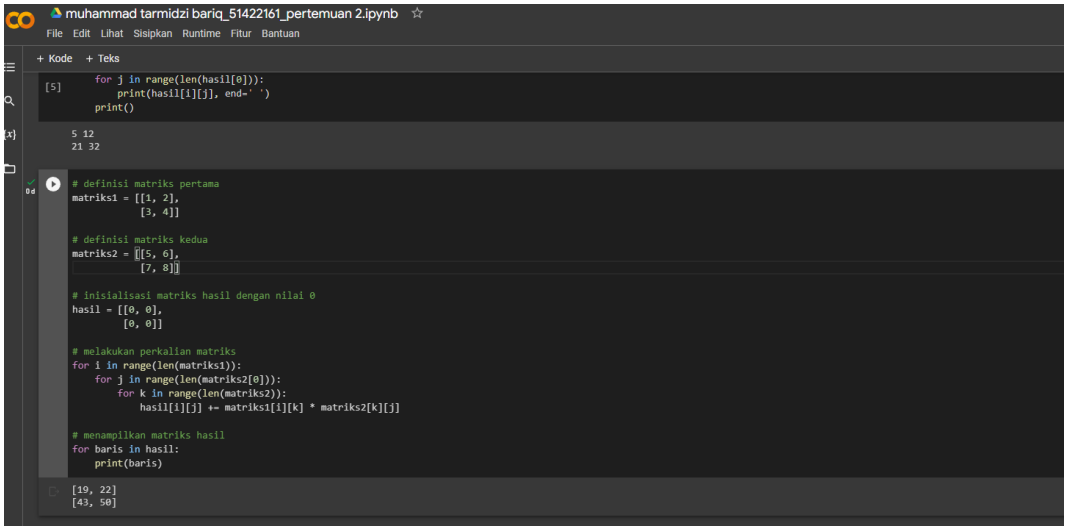
```
# definisi matriks pertama
matriks1 = [[1, 2],
            [3, 4]]

# definisi matriks kedua
matriks2 = [[5, 6],
            [7, 8]]

# inisialisasi matriks hasil dengan nilai 0
hasil = [[0, 0],
         [0, 0]]

# melakukan perkalian matriks
for i in range(len(matriks1)):
    for j in range(len(matriks2[0])):
        for k in range(len(matriks2)):
            hasil[i][j] += matriks1[i][k] * matriks2[k][j]

# menampilkan matriks hasil
for baris in hasil:
    print(baris)
```



3 Transpos matriks

```
# definisi matriks
matriks = [[1, 2],
           [4, 5]]

# melakukan operasi transpos matriks
transpos = [list(row) for row in zip(*matriks)]

# menampilkan matriks hasil
for baris in transpos:
    print(baris)
```