NAMA : HENDRA USMAN

NIM : D0221079

**KELAS**: F

TUGAS : ALJABAR LINEAR (MENGHITUNG NILAI DETERMINAN MATRIKS)

## **Progam 1: (Menggunakan User Input)**

```
tugas.py - ALJABAR-LINEAR - Visual Studio Code
                    ··· 📦 tugas.py 🗙 🏺 tugas2.py
C
      EXPLORER
     ∨ ALJABA... [‡ 芹 ひ ø
                          tugas.py > ...

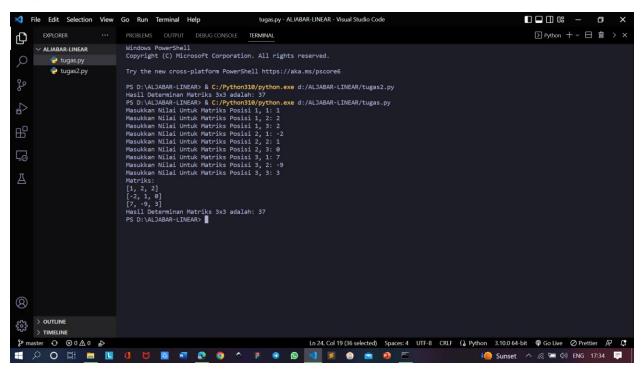
#HENDRA USMAN (D0221079)
      tugas.py
 Q I
                                $
8
Д
                              #kalkulasi determinan matriks 3x3

x = ((b[0][0]*b[1][1]*b[2][2]) + (b[0][1]*b[1][2]*b[2][0]) + (b[0][2]*b[1][0]*b[2][1]))

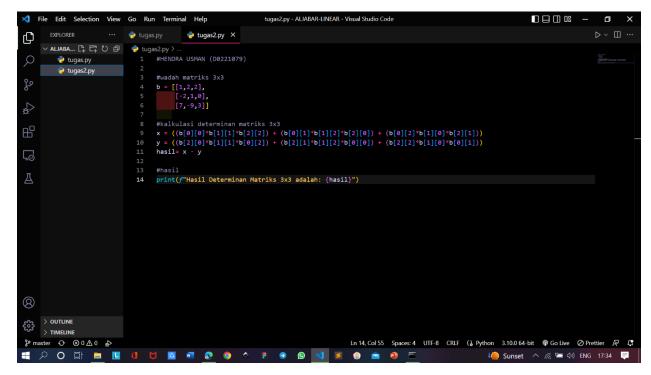
y = ((b[2][0]*b[1][1]*b[0][2]) + (b[2][1]*b[1][2]*b[0][0]) + (b[2][2]*b[1][0]*b[0][1]))

hasil= x - y
                           #hasil
print(f"Hasil Determinan Matriks 3x3 adalah: {hasil}")
> OUTLINE > TIMELINE
Ln 24, Col 19 (36 selected) Spaces: 4 UTF-8 CRLF () Python 3.10.0 64-bit 🖣 Go Live 🔗 Prettier 尽 🕻
                                                                                                              🍋 Sunset 🗥 🦟 ≔ 🕪 ENG 17:33 🃮
```

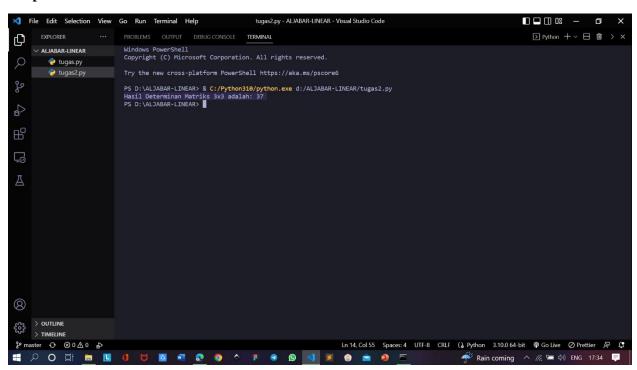
## **Output:**



Progam 2: (Nilainya langsung dimasukkan)



## **Output:**



## **Penghitungan Manual:**

Nama: Hendra Usman
NIM : 00221079
Kelas : Informatika-F
Tugas:
Tentukan determinan clari matriks 13 berikut:
(Gunakan NIM masing-masing)
7
Jauxob:
00221079
A1 A2 A3 A4 A5 A6 A7
2 9
1 2 2 1 2
B = -2 1 0 =>  B  = -2 1 0 -2 1
$ \beta : \begin{bmatrix} 1 & 2 & 2 \\ -2 & 1 & 0 \\ 7 & -9 & 3 \end{bmatrix} \Rightarrow \begin{vmatrix} \beta \end{vmatrix} : \begin{vmatrix} 2 & 2 & 2 \\ -2 & 0 & 2 & 1 \\ 7 & -9 & 3 & 7 & 9 \end{bmatrix} $
+ + +
B1 = (1.1.3 + 2.0.7 + 2.(-2).(-9)) - (2.1.7
+1.0.(-9) + 2.(-2).3)
= (3+9+36)-(14+0+(-12))
= 39 -2
= 37
Jadi, diperoleh hasilnya yaitu 37.