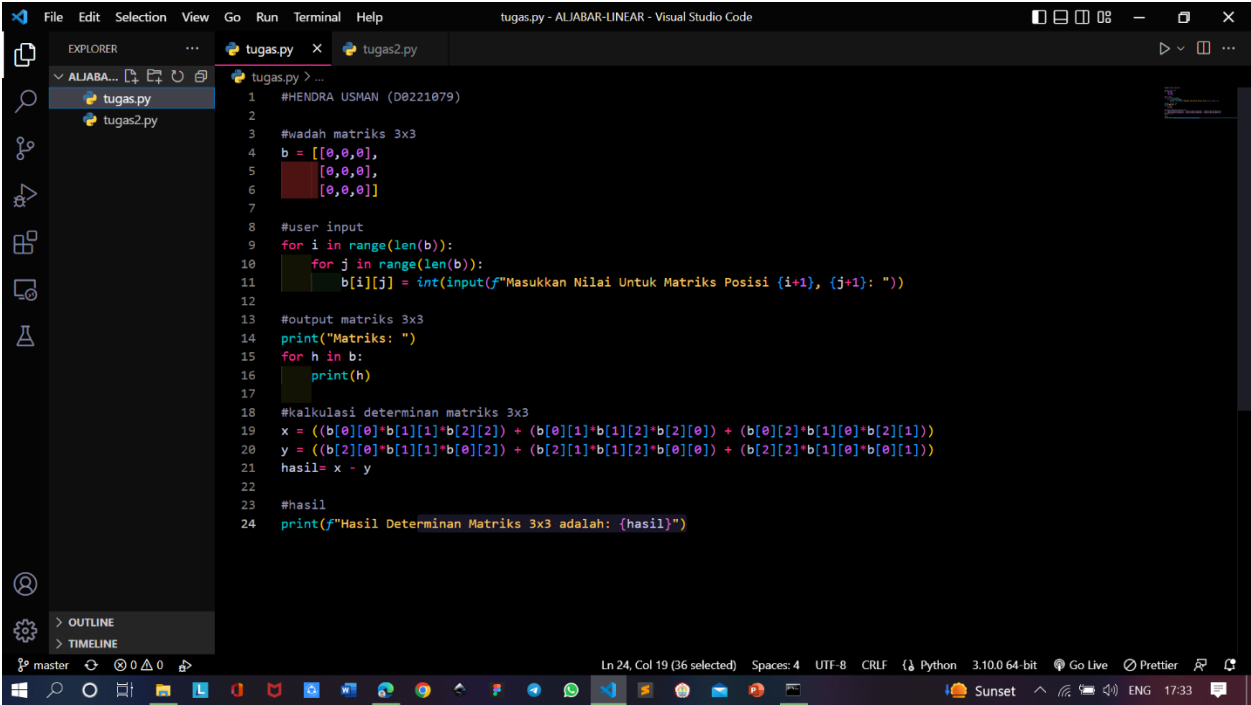
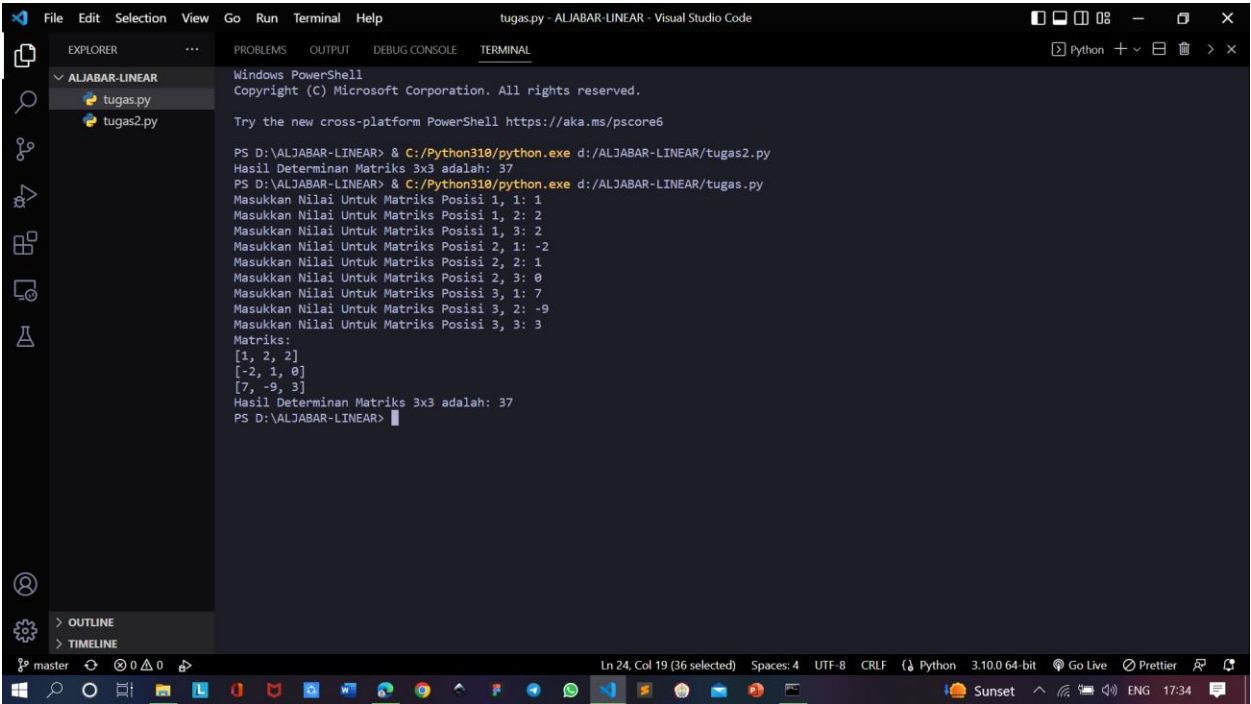


NAMA : HENDRA USMAN
NIM : D0221079
KELAS : F
TUGAS : ALJABAR LINEAR (MENGHITUNG NILAI DETERMINAN MATRIKS)

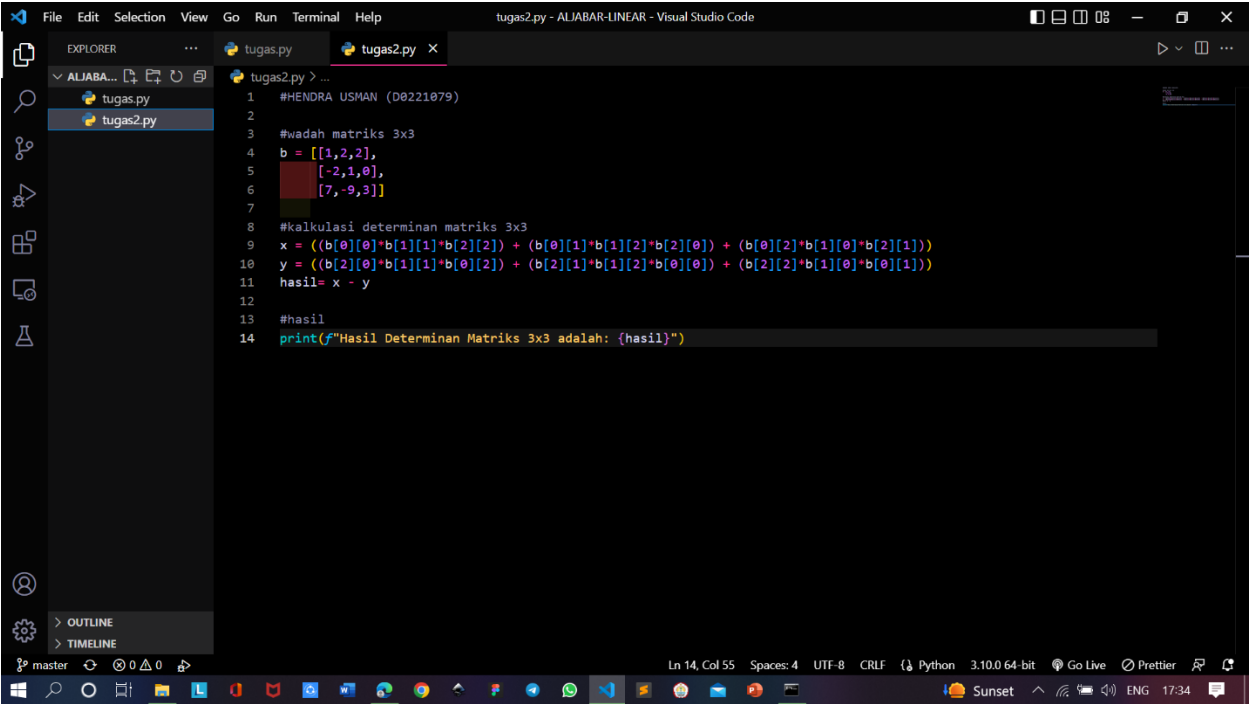
Progam 1: (Menggunakan User Input)



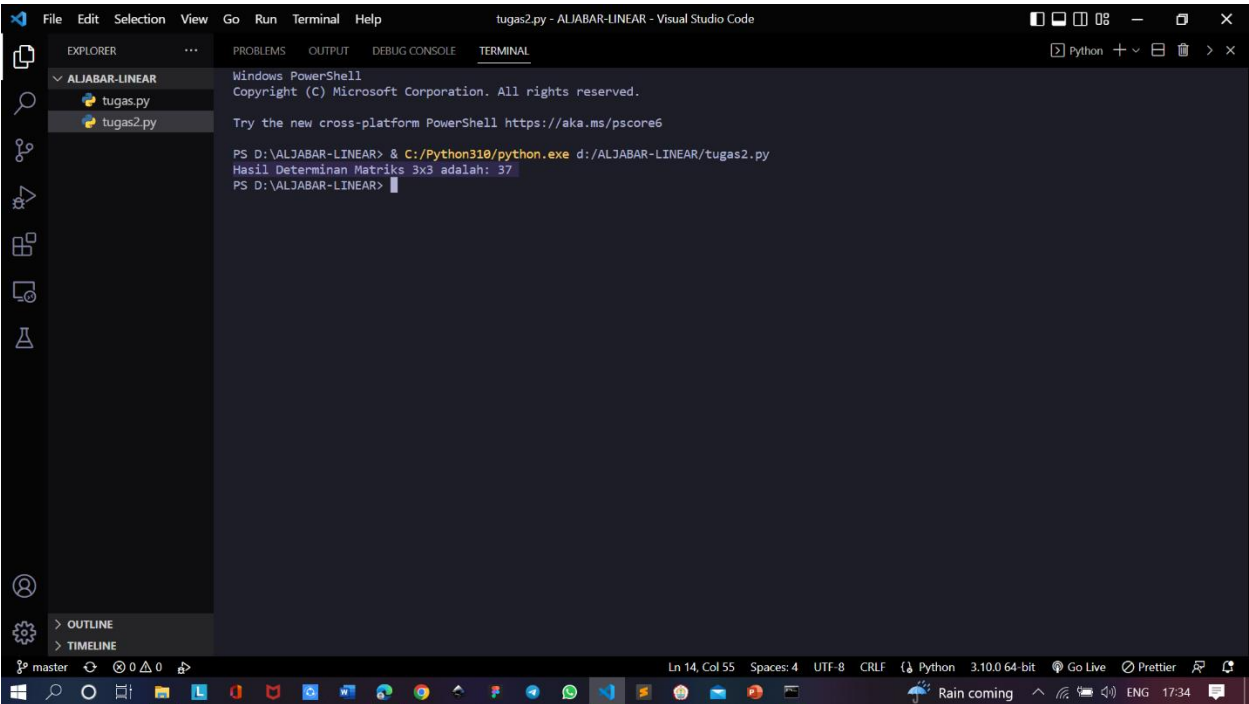
Output:



Progam 2: (Nilainya langsung dimasukkan)



Output:



Penghitungan Manual:

Nama : Hendra Usman
NIM : 00221079
Kelas : Informatika-F

Tugas :
Tentukan determinan dari matriks B berikut :
(Gunakan NIM masing-masing)

Jawab :

D	0	2	2	1	0	7	9
	A ₁	A ₂	A ₃	A ₄	A ₅	A ₆	A ₇

$$B = \begin{bmatrix} 1 & 2 & 2 \\ -2 & 1 & 0 \\ 7 & -9 & 3 \end{bmatrix} \Rightarrow |B| = \begin{vmatrix} 1 & 2 & 2 & 1 & 2 \\ -2 & 1 & 0 & -2 & 1 \\ 7 & -9 & 3 & 7 & -9 \end{vmatrix}$$

$$|B| = (1 \cdot 1 \cdot 3 + 2 \cdot 0 \cdot 7 + 2 \cdot (-2) \cdot (-9)) - (2 \cdot 1 \cdot 7 + 1 \cdot 0 \cdot (-9) + 2 \cdot (-2) \cdot 3)$$
$$= (3 + 0 + 36) - (14 + 0 + (-12))$$
$$= 39 - 2$$
$$= \underline{\underline{37}}$$

Jadi, diperoleh hasilnya yaitu 37.