

Instituto tecnológico de San Luis Potosí



---

# PROGRAMAS

Inteligencia Artificial

---

20 DE NOVIEMBRE DE 2024

Wendy Itzel Parra Rodríguez

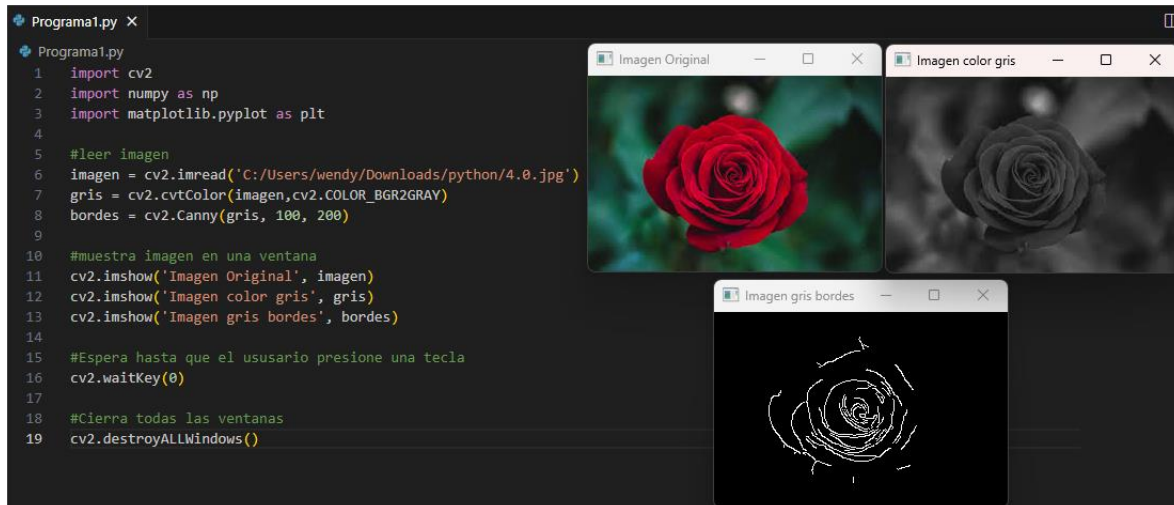
*ISC. Stephanie Cordero Martínez*

9 Semestre

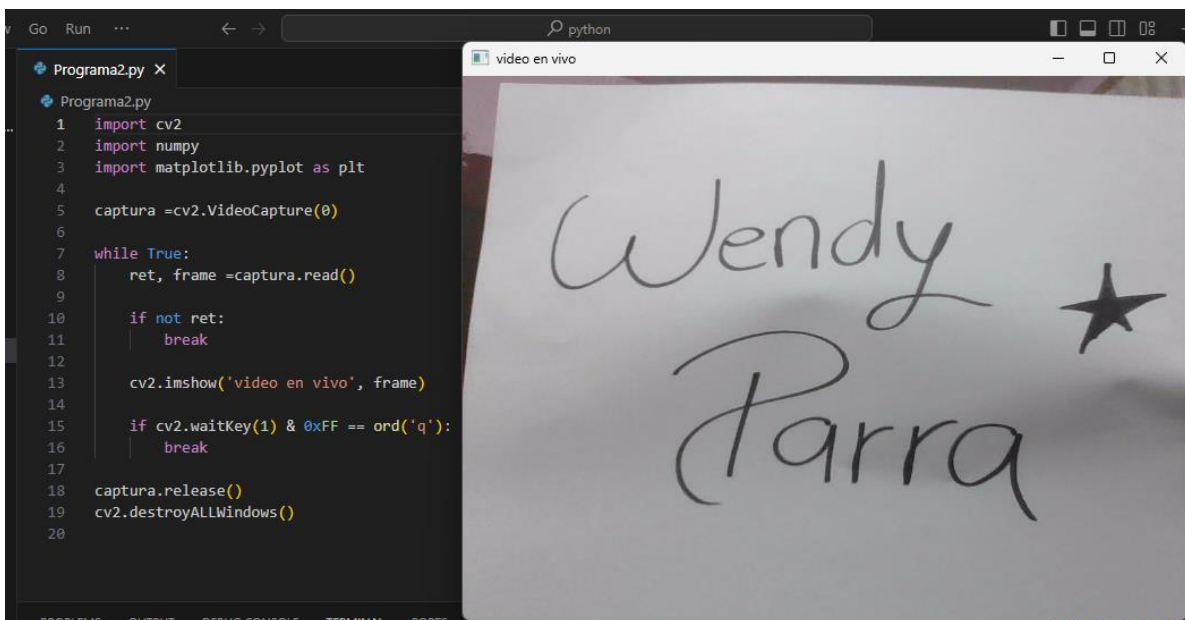
ING. SISTEMAS COMPUTACIONALES

18:00 – 19:00

## PROGRAMA 1



## PROGRAMA 2



## PROGRAMA 3

▼ hoy

6.0

Archivo creado

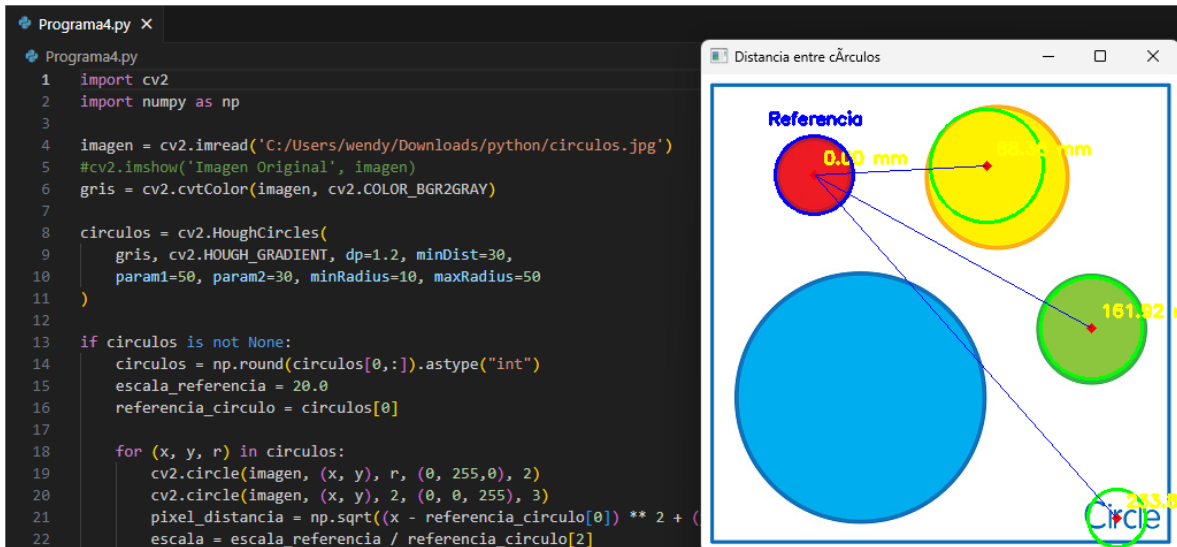
Programa3.py X

Programa3.py

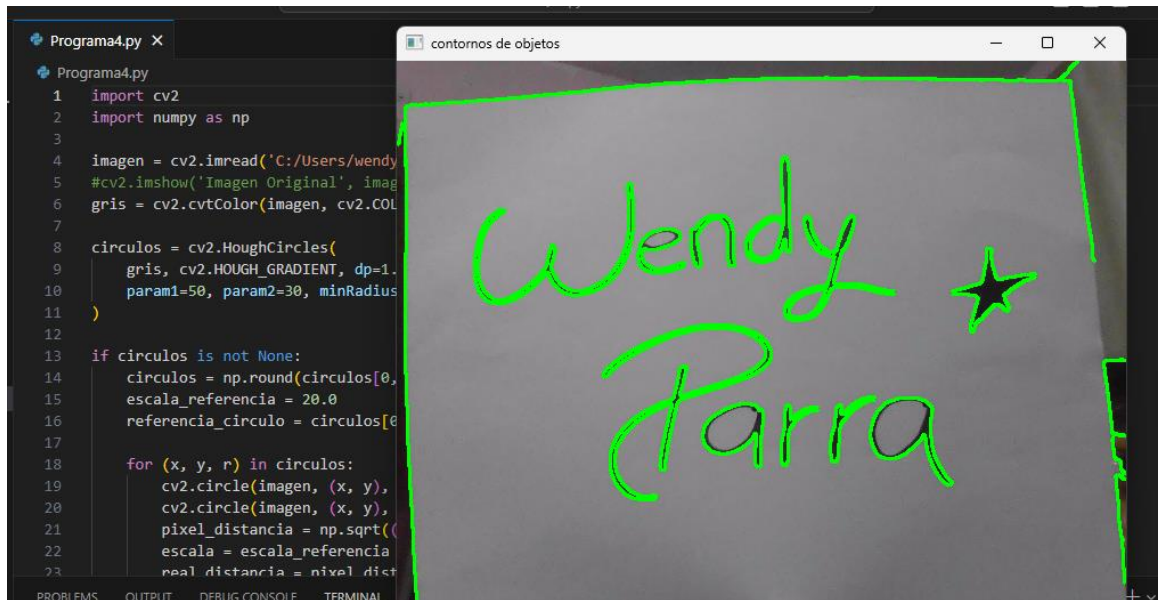
```
1 import cv2
2 captura = cv2.VideoCapture(0)
3 ret, frame = captura.read()
4 if ret:
5     cv2.imwrite('C:/Users/wendy/Downloads/python/6.0.jpg', frame)
6
7 captura.release()
```



## PROGRAMA 4

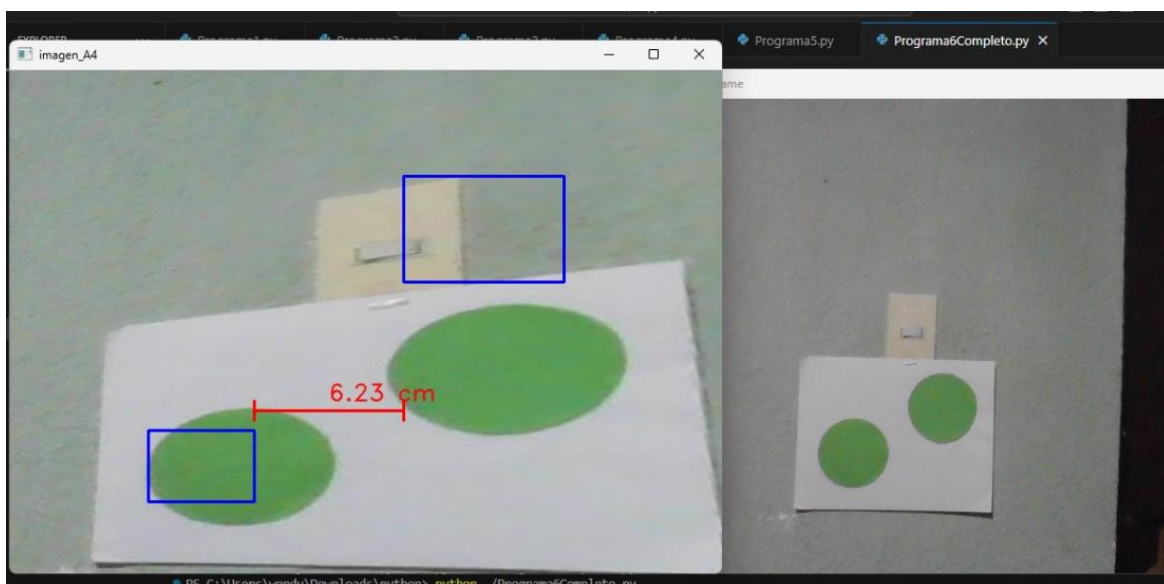


## PROGRAMA 5



## PROGRAMA 6

```
Programa6.py X
Programa6.py
1  from ast import Not
2  from email.mime import image
3  import numpy as np
4  import cv2
5
6  def ordenar_puntos(puntos):
7      n_puntos = np.concatenate([puntos[0], puntos[1], puntos[2], puntos[3]]).tolist()
8      y_order = sorted(n_puntos, key=lambda n_puntos: n_puntos[1])
9
10     x1_order = y_order[:2]
11     x1_order = sorted(x1_order, key=lambda x1_order: x1_order[0])
12     x2_order = y_order[2:4]
13     x2_order = sorted(x2_order, key=lambda x2_order: x2_order[0])
14
15     return [x1_order[0], x1_order[1], x2_order[0], x2_order[1]]
16
17 def roi(image, ancho, alto):
18     imagen_alineada = None
19     gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
20     _, th = cv2.threshold(gray, 150, 255, cv2.THRESH_BINARY)
21     #cv2.imshow('th',th)
22     cnts = cv2.findContours(th, cv2.RETR_EXTERNAL, cv2.CHAIN_APPROX_SIMPLE)[0]
```



Enlace en GitHub

<https://github.com/WendyParra/Programas>