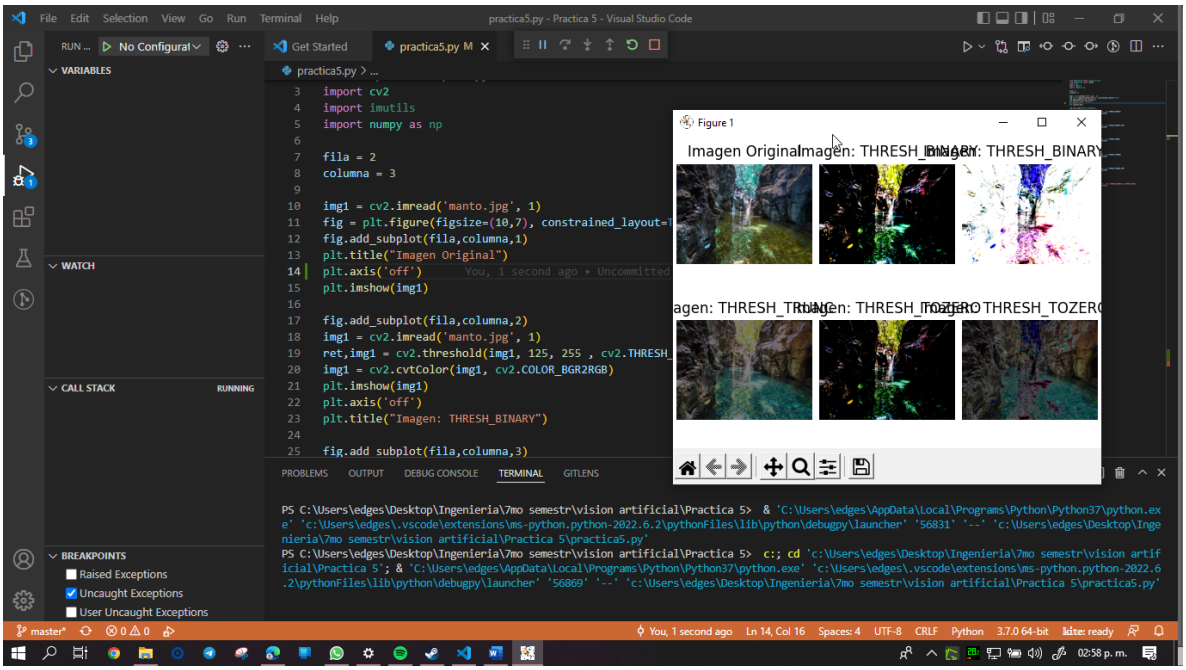
MANUAL DE USUARIO PRACTICA 5

PEDRO MIGUEL ELGUERA MORA 19110148

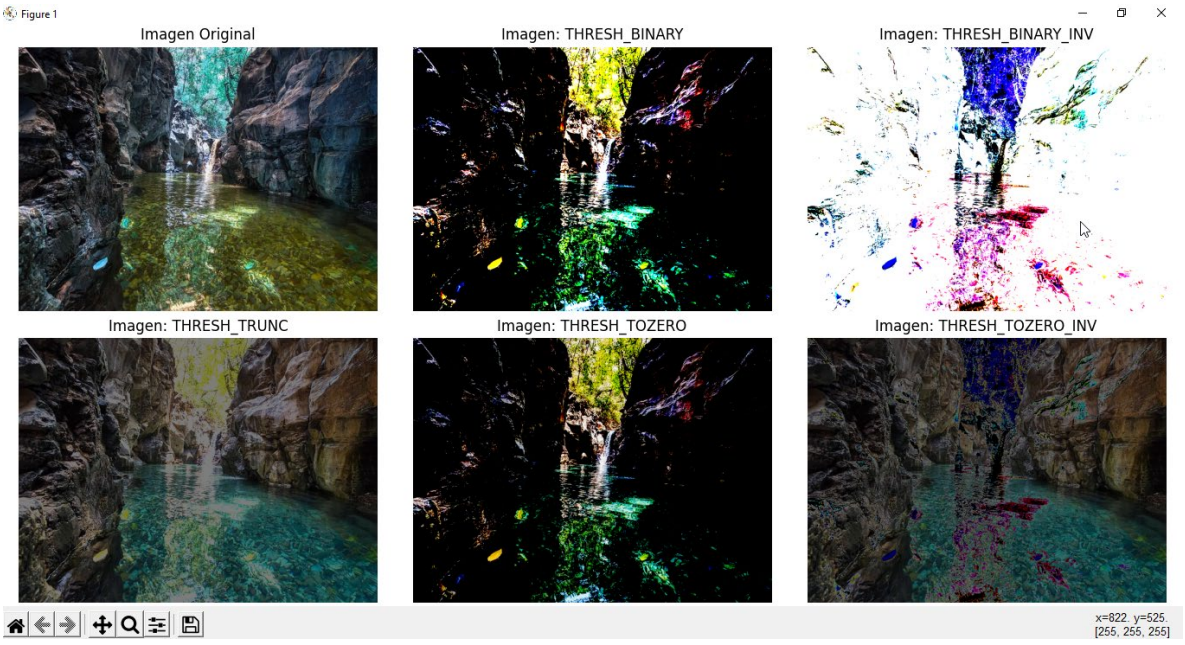
CETI COLOMOS VISION ARTIFICIAL 7E1

MANUAL DE USUARIO

EVIDENCIA



APP



Esta es la vista principal de la aplicación.

Git:

https://github.com/PedroElgueraCeti/Practica5_VisionArtificial.git

Code:

```
#Pedro Miguel Elguera Mora 19110148

from matplotlib import pyplot as plt
from matplotlib import pylab
import cv2
import imutils
import numpy as np

fila = 2
columna = 3

img1 = cv2.imread('manto.jpg', 1)
fig = plt.figure(figsize=(10,7), constrained_layout=True)
fig.add_subplot(fila,columna,1)
plt.title("Imagen Original")
plt.axis('off')
plt.imshow(img1)

fig.add_subplot(fila,columna,2)
img1 = cv2.imread('manto.jpg', 1)
ret,img1 = cv2.threshold(img1, 125, 255 , cv2.THRESH_BINARY)
img1 = cv2.cvtColor(img1, cv2.COLOR_BGR2RGB)
plt.imshow(img1)
plt.axis('off')
plt.title("Imagen: THRESH_BINARY")

fig.add_subplot(fila,columna,3)
img1 = cv2.imread('manto.jpg', 1)
ret,img1 = cv2.threshold(img1, 125, 255 , cv2.THRESH_BINARY_INV)
img1 = cv2.cvtColor(img1, cv2.COLOR_BGR2RGB)
plt.imshow(img1)
plt.axis('off')
plt.title("Imagen: THRESH_BINARY_INV")

fig.add_subplot(fila,columna,4)
img1 = cv2.imread('manto.jpg', 1)
ret,img1 = cv2.threshold(img1, 125, 255 , cv2.THRESH_TRUNC)
img1 = cv2.cvtColor(img1, cv2.COLOR_BGR2RGB)
```

```
plt.imshow(img1)
plt.axis('off')
plt.title("Imagen: THRESH_TRUNC")


fig.add_subplot(fila,columna,5)
img1 = cv2.imread('manto.jpg', 1)
ret,img1 = cv2.threshold(img1, 125, 255 , cv2.THRESH_TOZERO)
img1 = cv2.cvtColor(img1, cv2.COLOR_BGR2RGB)
plt.imshow(img1)
plt.axis('off')
plt.title("Imagen: THRESH_TOZERO")

fig.add_subplot(fila,columna,6)
img1 = cv2.imread('manto.jpg', 1)
ret,img1 = cv2.threshold(img1, 125, 255 , cv2.THRESH_TOZERO_INV)
img1 = cv2.cvtColor(img1, cv2.COLOR_BGR2RGB)
plt.imshow(img1)
plt.axis('off')
plt.title("Imagen: THRESH_TOZERO_INV")

"""
fig.add_subplot(fila,columna,7)
img1 = cv2.imread('manto.jpg', 1)
ret,img1 = cv2.threshold(img1, 125, 255 ,
(cv2.THRESH_BINARY+cv2.THRESH_OTSU))
img1 = cv2.cvtColor(img1, cv2.COLOR_BGR2RGB)
plt.imshow(img1)
plt.axis('off')
plt.title("Imagen: THRESH_OTSU")

"""

plt.show()
```