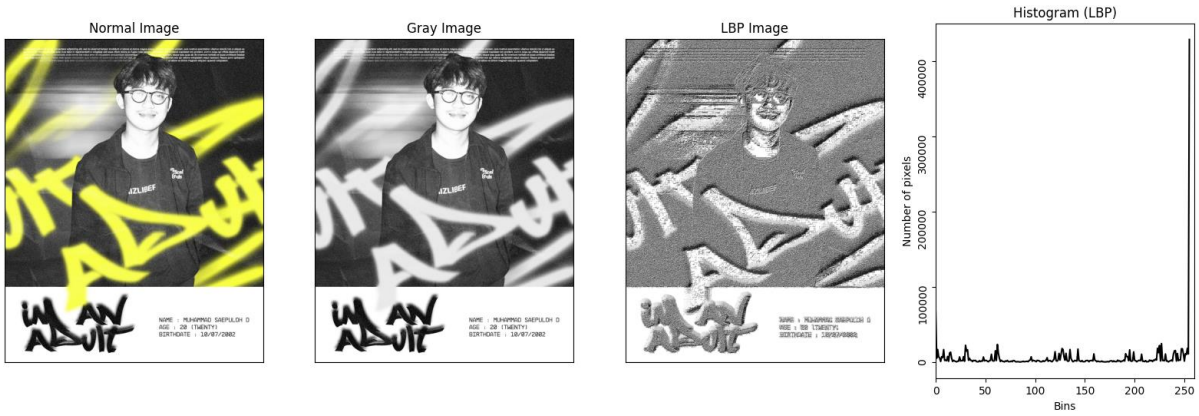
Nama : Muhammad Saepuloh Darmayanto

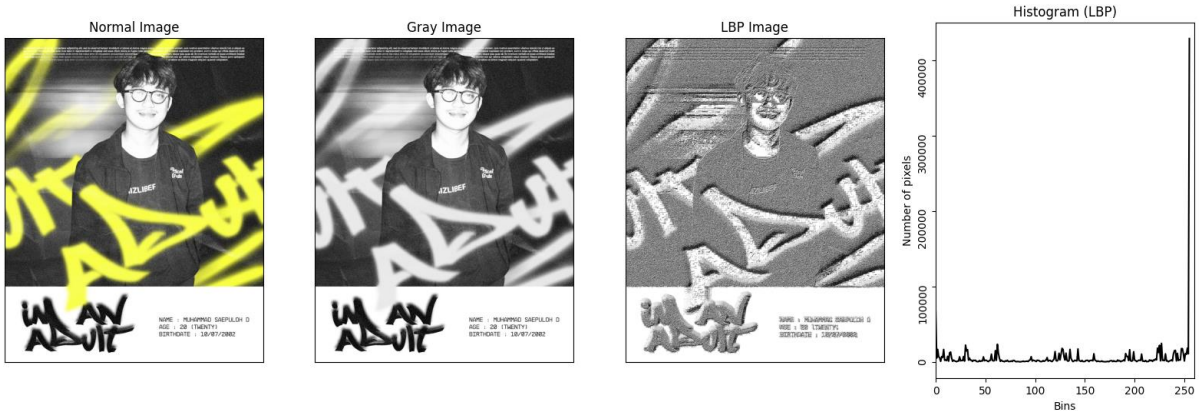
Kelas : Teknik Elektro B

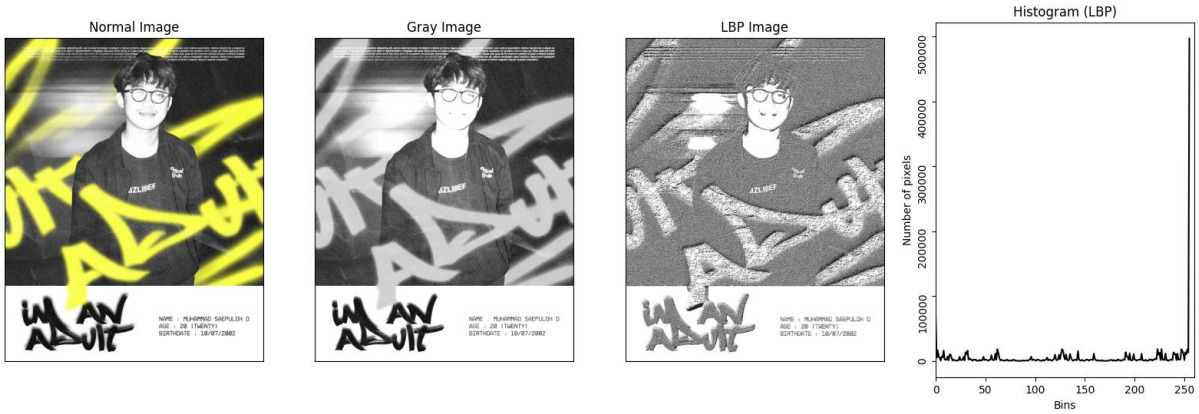
Mata Kuliah : Praktikum Pengolahan Citra Digital

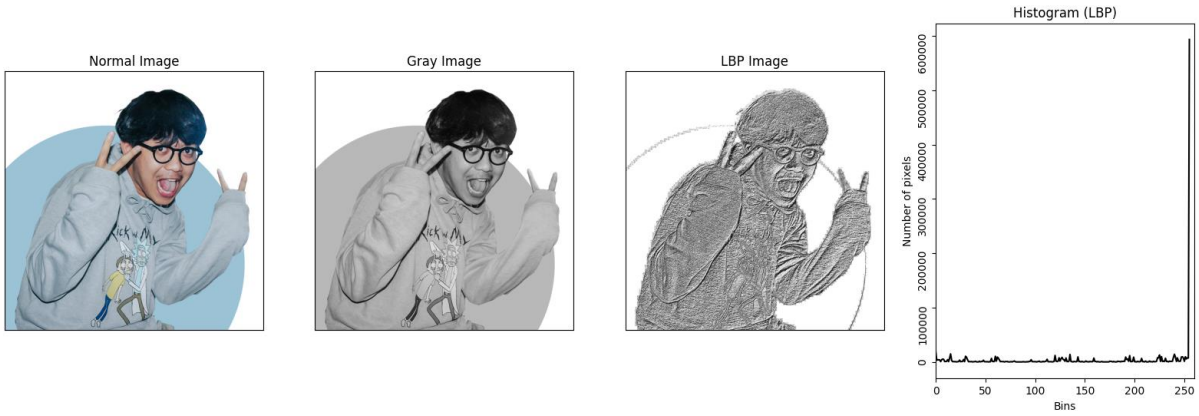
Modul 10 Praktikum Ekstraksi Fitur dan Feature Detection

Latihan 1. EKSTRASI FITUR LBP

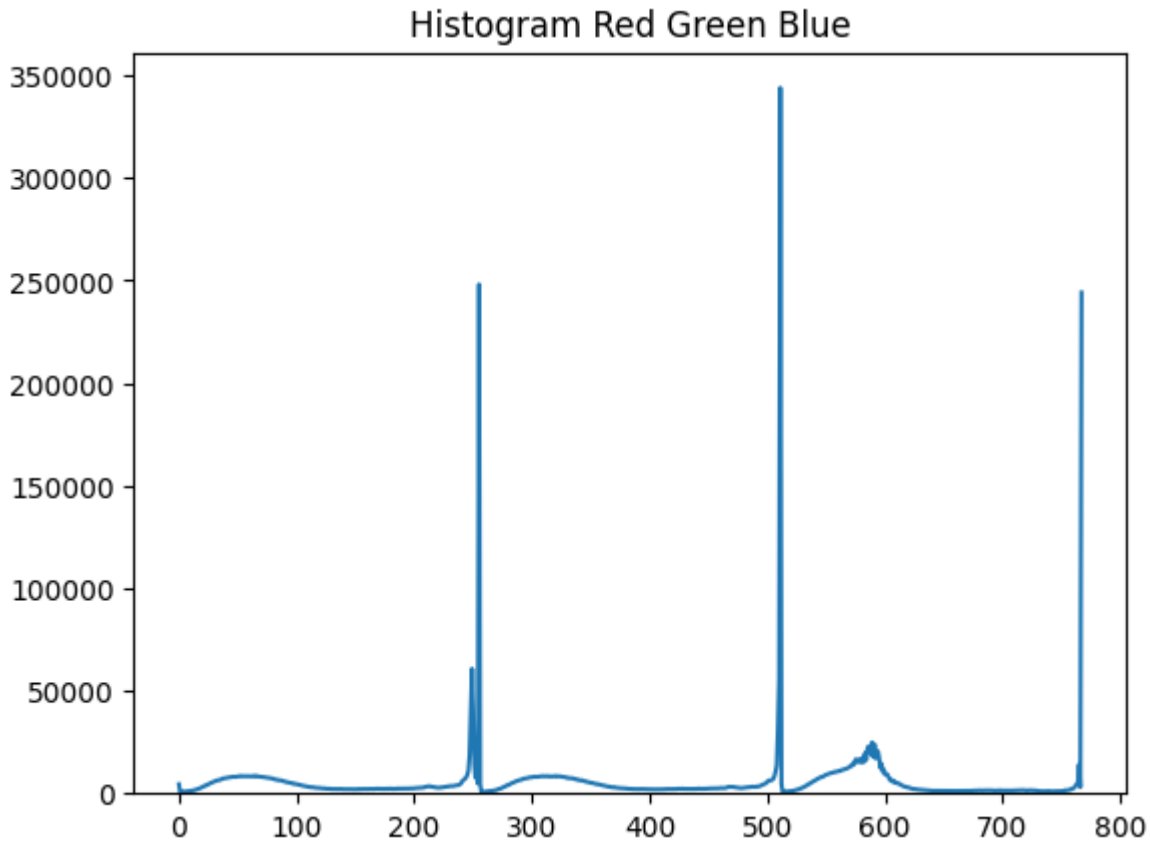


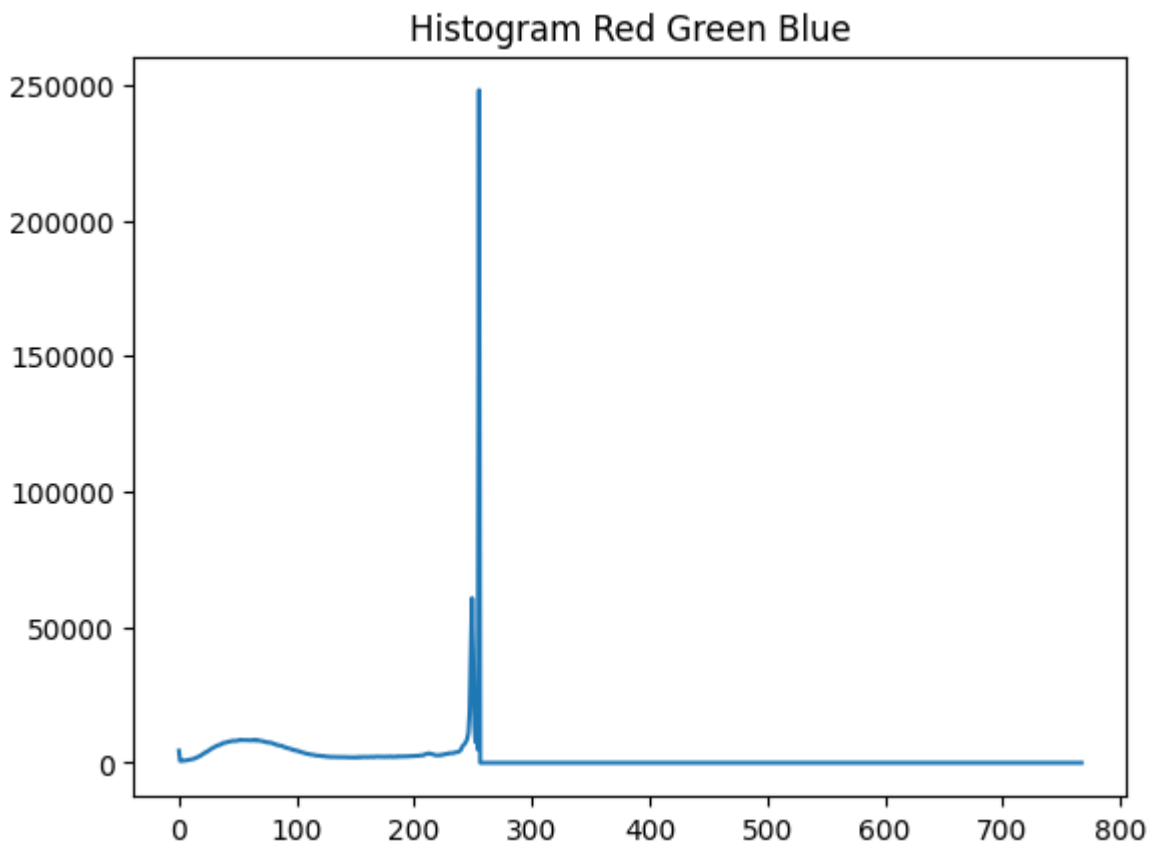


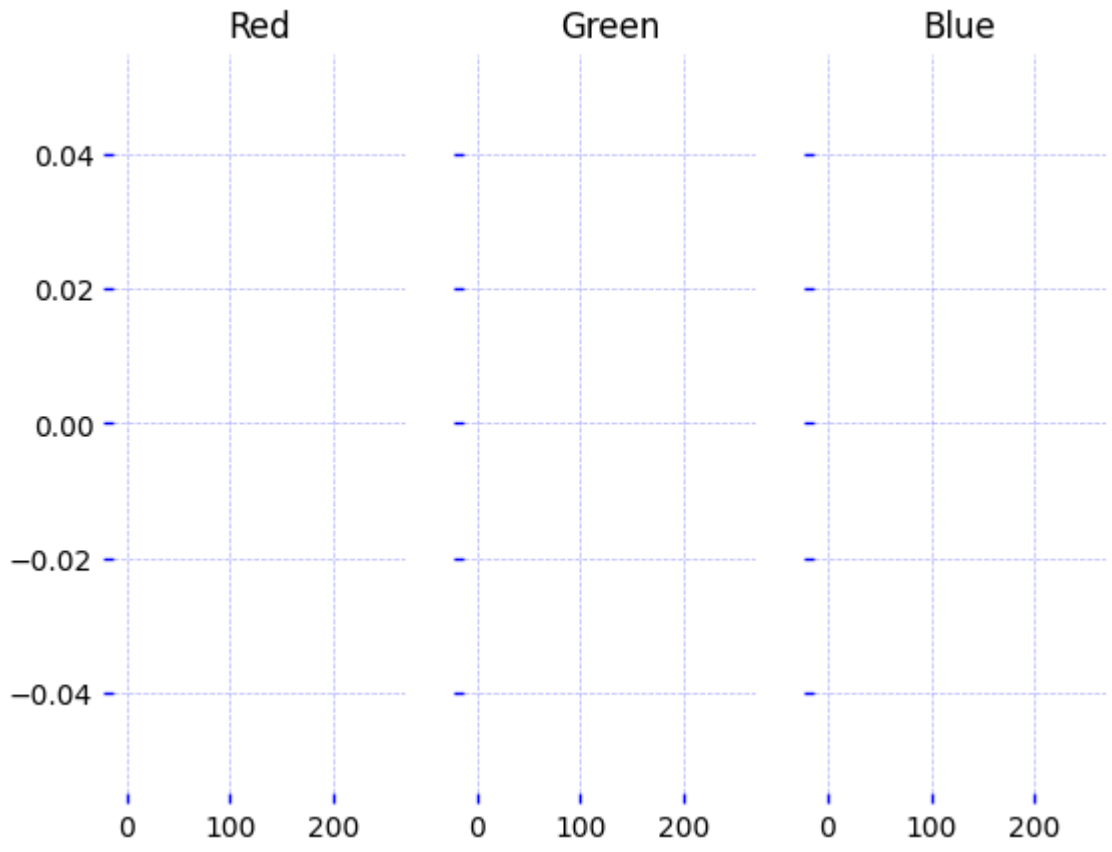




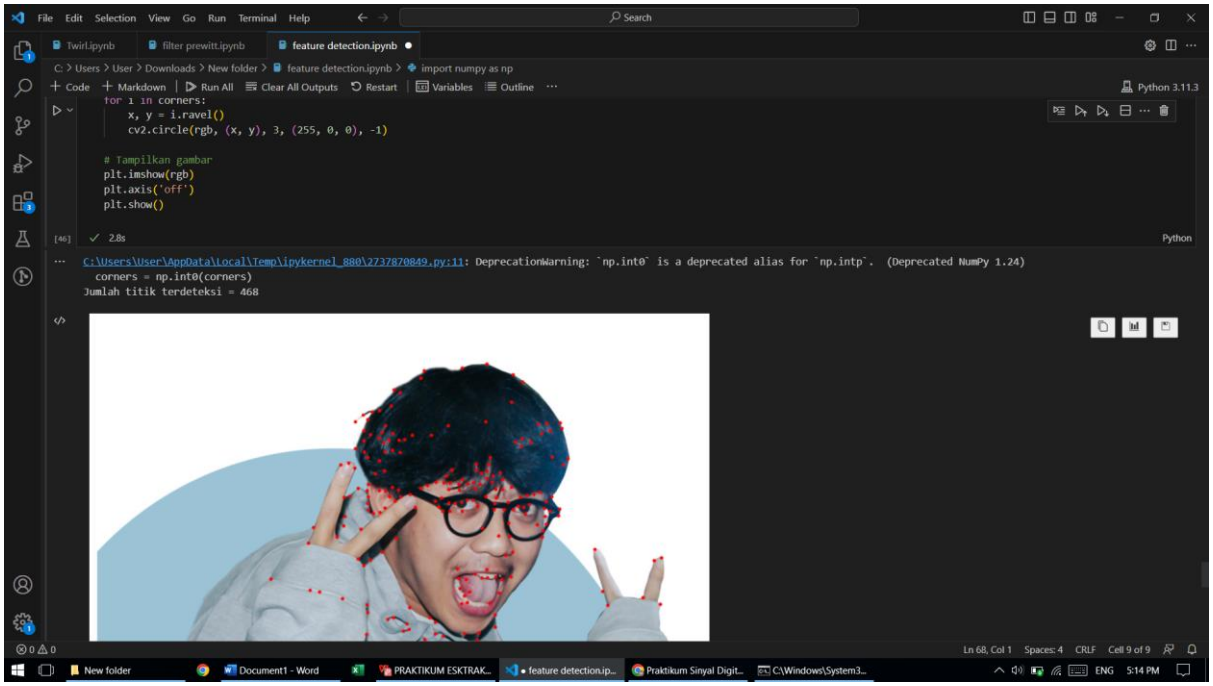
LATIHAN 2. EKSTRASI FITUR BERDASARKAN WARNA




Histogram Red Green Blue
250000
200000
150000
100000
50000
0
0
100
200
300
400
500
600
700
800

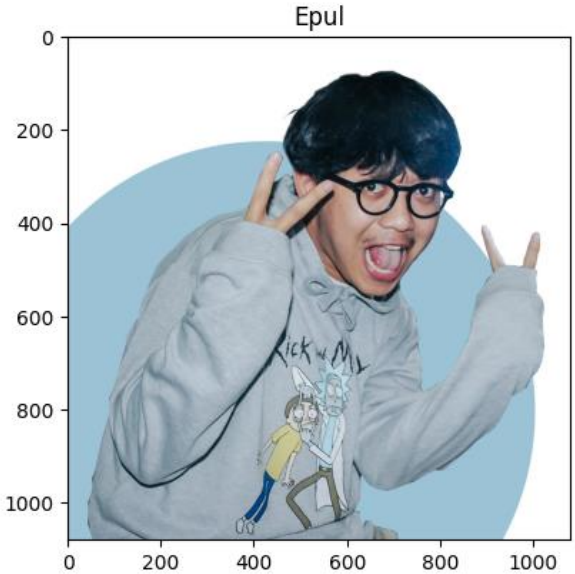

Red
Green
Blue
0.04
0.02
0.00
−0.02
−0.04
0
100
200
0
100
200
0
100
200

Latihan 4: Menggunakan Corner Detector

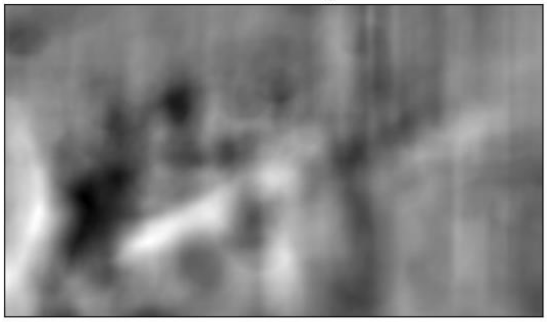


Latihan 5: Feature Detection and Matching

Latihan 6. template matching mendeteksi



Hasil matching

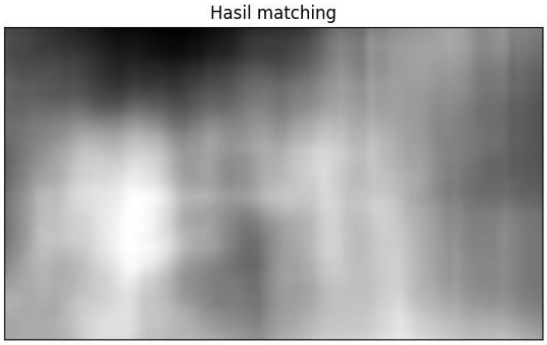


Lokasi terdeteksi

Hasil matching

Lokasi terdeteksi

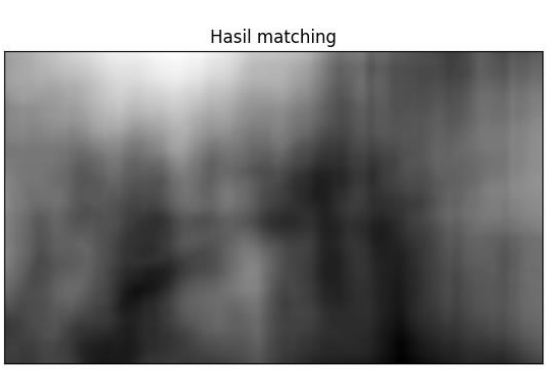
Hasil matching

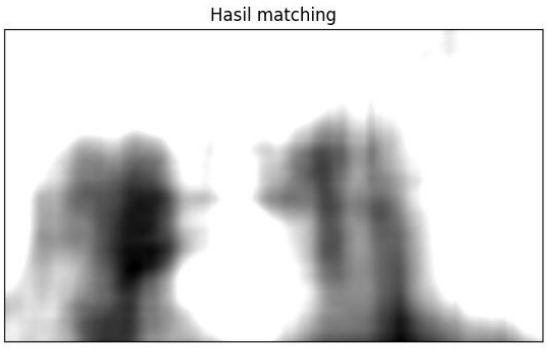


Lokasi terdeteksi

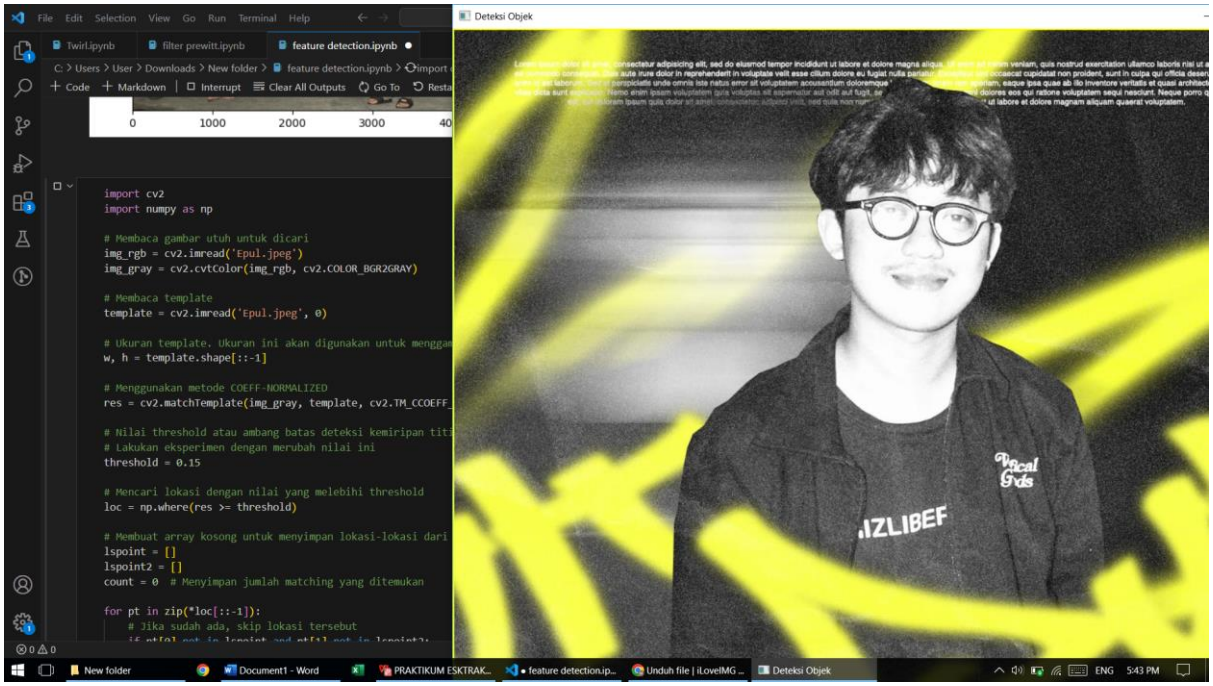
Hasil matching

Lokasi terdeteksi





Latihan 7: Menghitung deteksi


File Edit Selection View Go Run Terminal Help
Twirl.ipynb
filter prewitt.ipynb
feature detection.ipynb
C: > Users > User > Downloads > New folder > feature detection.ipynb
Code Markdown Interrupt Clear All Outputs Go To
0 1000 2000 3000
import cv2
import numpy as np
# Membaca gambar utuh untuk dicari
img_rgb = cv2.imread('Epul.jpeg')
img_gray = cv2.cvtColor(img_rgb, cv2.COLOR_BGR2GRAY)
# Membaca template
template = cv2.imread('Epul.jpeg', 0)
# Ukuran template. Ukuran ini akan digunakan untuk menggam
w, h = template.shape[::-1]
# Menggunakan metode COEFF-NORMALIZED
res = cv2.matchTemplate(img_gray, template, cv2.TM_CCOEFF_
# Nilai threshold atau ambang batas deteksi kemiripan titi
# Lakukan eksperimen dengan merubah nilai ini
threshold = 0.15
# Mencari lokasi dengan nilai yang melebihi threshold
loc = np.where(res >= threshold)
# Membuat array kosong untuk menyimpan lokasi-lokasi dari
lspoint = []
lspoint2 = []
count = 0 # Menyimpan jumlah matching yang ditemukan
for pt in zip(*loc[::-1]):
# Jika sudah ada, skip lokasi tersebut
Deteksi Objek
.IZLIBEF
New folder
Document1 - Word
PRAKTIKUM ESKTRAK...
feature detection.ip...
Unduh file | iLoveIMG ...
Deteksi Objek
ENG
5:43 PM