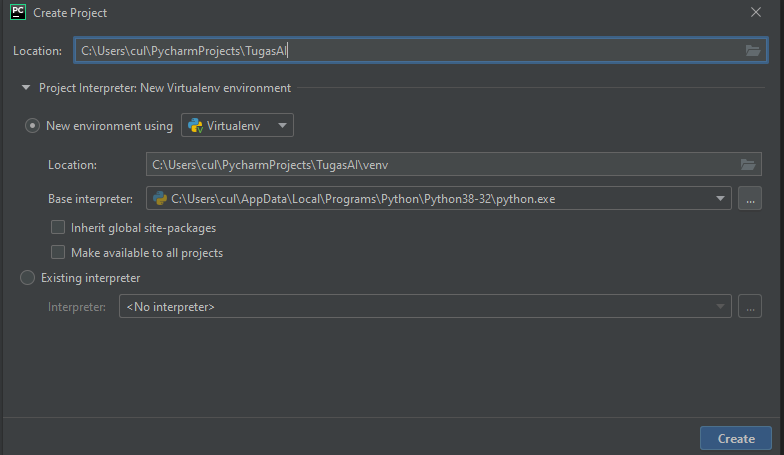
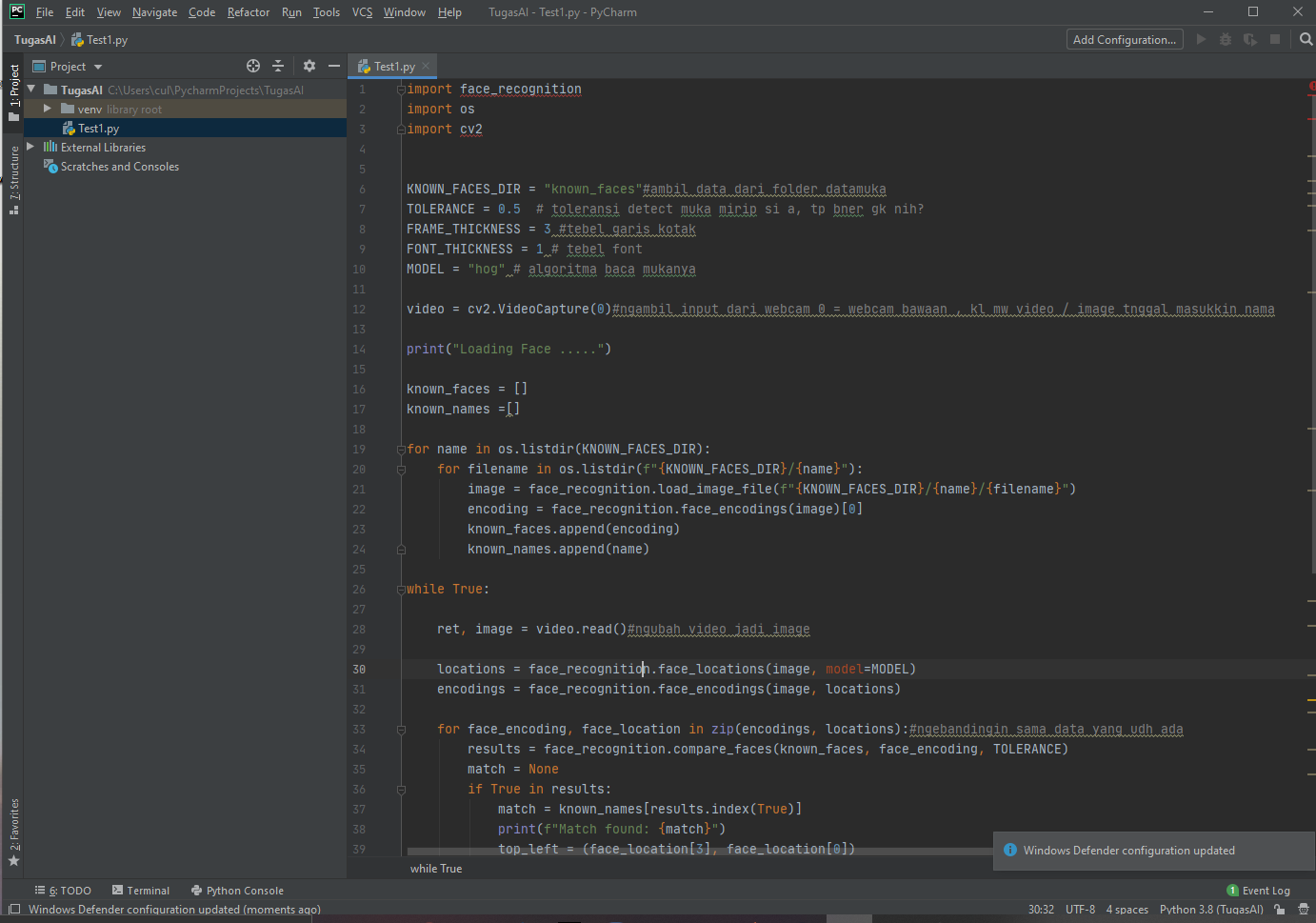
Step Face Recognition

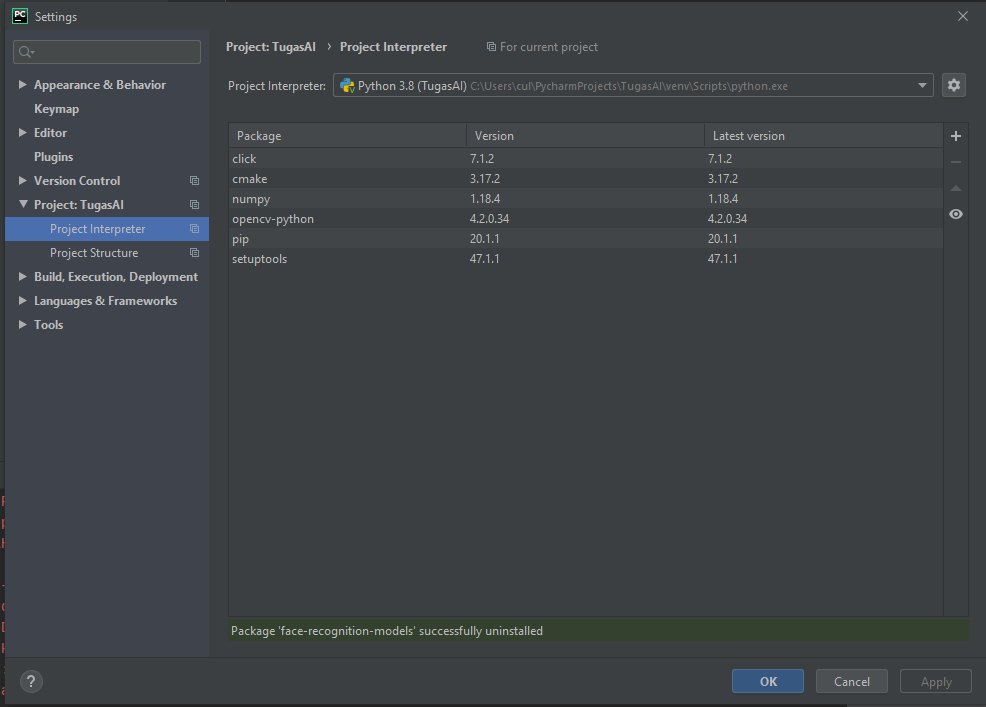
* Buat project baru



* Buat file baru dan copas codingan (code d paling akhir)

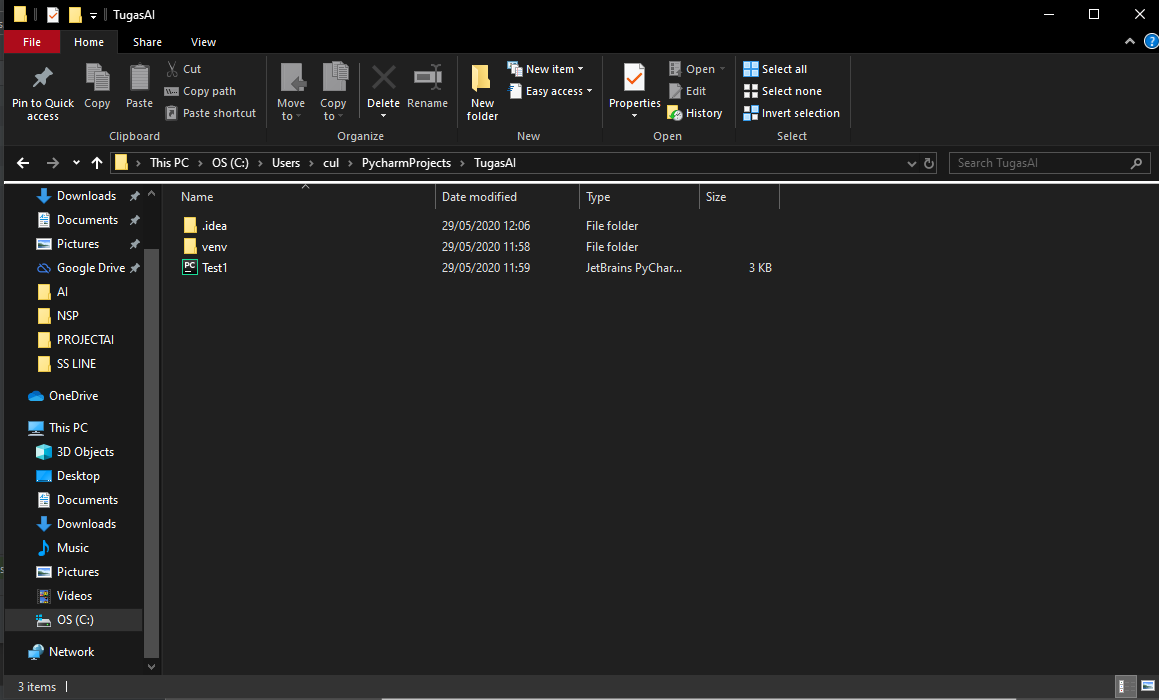


* Lalu install Package”nya ( File 🡪 setting 🡪 liat gambar)
  + Opencv-python
  + Face-recognition
  + Cmake
  + Dlib

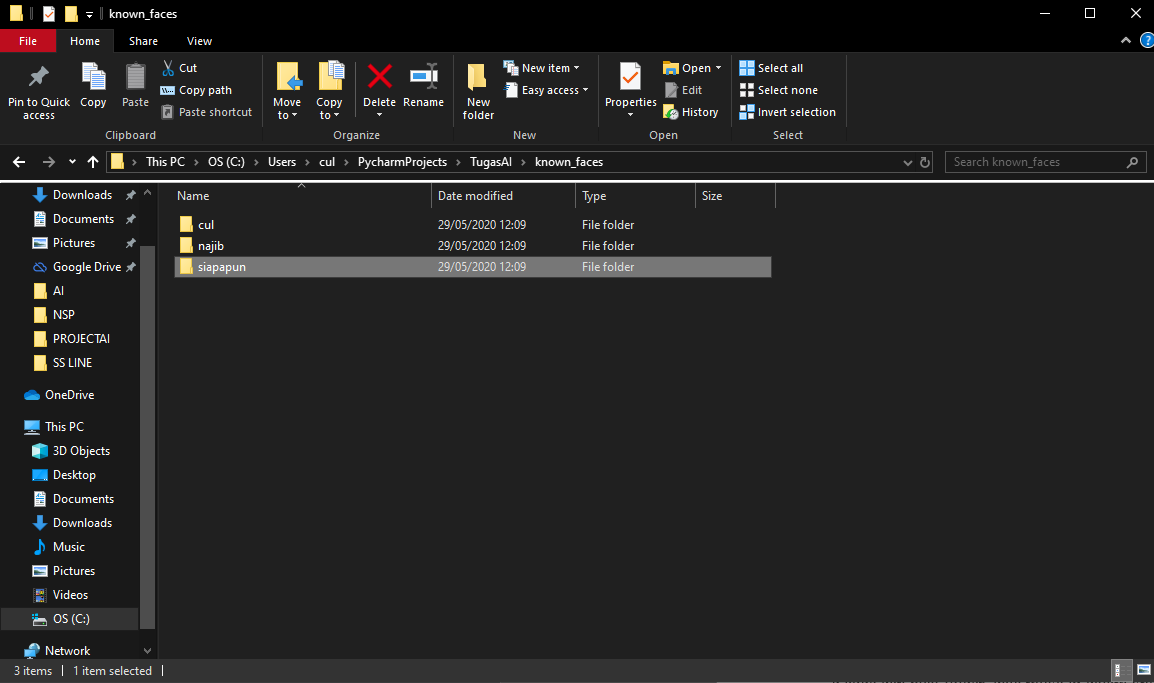


Notes : yang gua error terus gtw knpa pas install face-recognition sama dlib

* Kalau udah buka file projectnya d OS C; ( file project)



* Buat folder baru kasih nama known\_faces karena sesuai yang ada d code dan buat folder data muka di dalam known\_faces



* Masukkin foto selfie di folder sesuai nama, lalu coba d run
* Codingannya

import face\_recognition  
import os  
import cv2  
  
  
KNOWN\_FACES\_DIR = "known\_faces"#ambil data dari folder datamuka  
TOLERANCE = 0.5 # toleransi detect muka mirip si a, tp bner gk nih?  
FRAME\_THICKNESS = 3 #tebel garis kotak  
FONT\_THICKNESS = 1 # tebel font  
MODEL = "hog" # algoritma baca mukanya  
  
video = cv2.VideoCapture(0)#ngambil input dari webcam 0 = webcam bawaan , kl mw video / image tnggal masukkin nama  
  
print("Loading Face .....")  
  
known\_faces = []  
known\_names =[]  
  
for name in os.listdir(KNOWN\_FACES\_DIR):  
 for filename in os.listdir(f"{KNOWN\_FACES\_DIR}/{name}"):  
 image = face\_recognition.load\_image\_file(f"{KNOWN\_FACES\_DIR}/{name}/{filename}")  
 encoding = face\_recognition.face\_encodings(image)[0]  
 known\_faces.append(encoding)  
 known\_names.append(name)  
  
while True:  
  
 ret, image = video.read()#ngubah video jadi image  
  
 locations = face\_recognition.face\_locations(image, model=MODEL)  
 encodings = face\_recognition.face\_encodings(image, locations)  
  
 for face\_encoding, face\_location in zip(encodings, locations):#ngebandingin sama data yang udh ada  
 results = face\_recognition.compare\_faces(known\_faces, face\_encoding, TOLERANCE)  
 match = None  
 if True in results:  
 match = known\_names[results.index(True)]  
 print(f"Match found: {match}")  
 top\_left = (face\_location[3], face\_location[0])  
 bottom\_right = (face\_location[1], face\_location[2])  
 color = [0, 255, 0]  
 cv2.rectangle(image, top\_left, bottom\_right, color, FRAME\_THICKNESS)#buat kotak di daerah muka  
  
 #buat label nama  
 top\_left = (face\_location[3], face\_location[2])  
 bottom\_right = (face\_location[1], face\_location[2]+22)  
 cv2.rectangle(image, top\_left, bottom\_right, color, cv2.FILLED)  
 cv2.putText(image, str(match), (face\_location[3]+10, face\_location[2]+15), cv2.FONT\_HERSHEY\_SCRIPT\_SIMPLEX, 1.0, (200,200,200),FONT\_THICKNESS)  
  
 cv2.imshow(filename, image)#nampilin muka  
 if cv2.waitKey(1) & 0xFF ==ord("q"):#tombol exit dengan q  
 break  
  
#release holder di webcam laptop/computer  
video.release()  
cv2.destroyAllWindows()