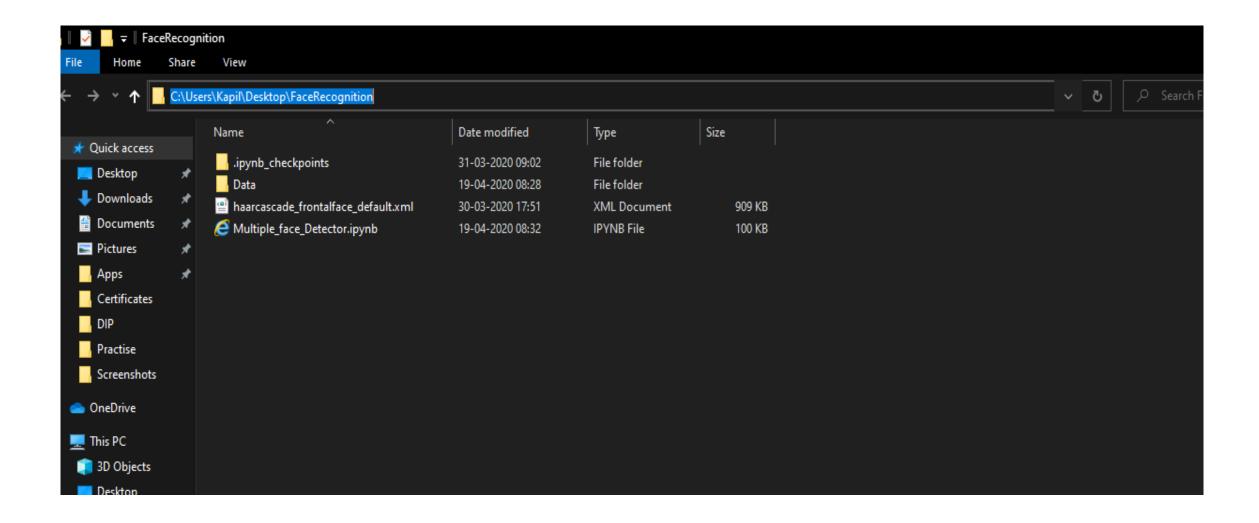
Step 1-> Create your FaceRecognition folder and save the file as shown below



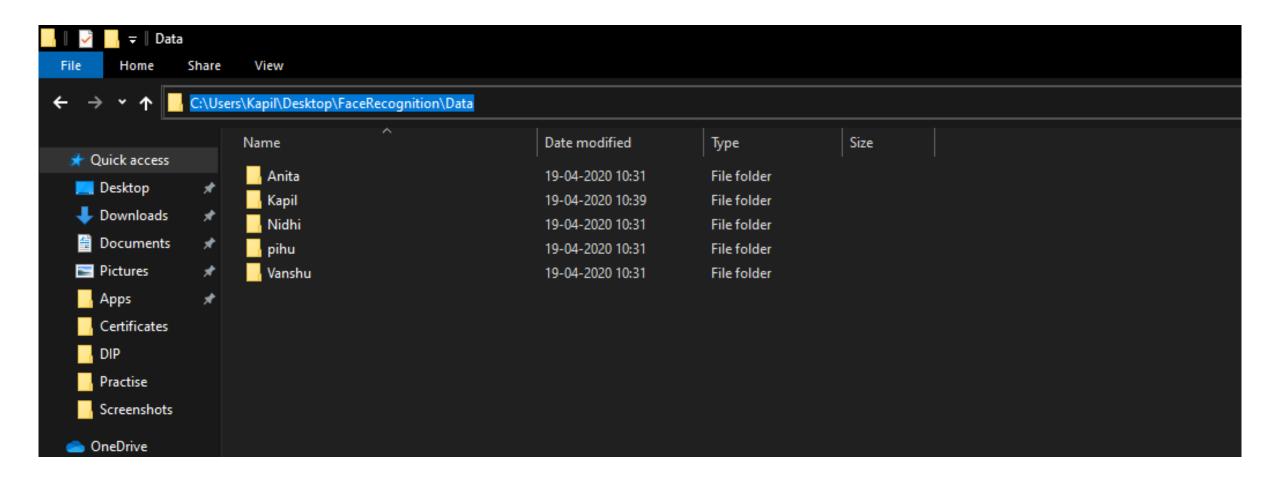
Step 2-> Run the First cell of file

```
cropped_face = img[y:y+h, x:x+w]
   return cropped face
# Initialize Webcam
cap = cv2.VideoCapture(0)
count = 0
# Making the folder of new member
name1=input("Enter the Name of person:")
os.chdir("C:/Users/Kapil/Desktop/FaceRecognition/Data/")
os.system(f"mkdir {name1}")
# Collect 100 samples of your face from webcam input
while True:
   ret, frame = cap.read()
   if face_extractor(frame) is not None:
        count += 1
        face = cv2.resize(face_extractor(frame), (200, 200))
        face = cv2.cvtColor(face, cv2.COLOR BGR2GRAY)
        # Save file in specified directory with unique name
       file_name_path = f'C:/Users/Kapil/Desktop/FaceRecognition/Data/{name1}/' + str(count) + '.ipg'
        cv2.imwrite(file_name_path, face)
        # Put count on images and display live count
        cv2.putText(face, str(count), (50, 50), cv2.FONT_HERSHEY_COMPLEX, 1, (0,255,0), 2)
        cv2.imshow('Face Cropper', face)
    else:
        print("Face not found")
        pass
   if cv2.waitKey(1) == 13 or count == 100: #13 is the Enter Key
        break
cap.release()
cv2.destrovAllWindows()
print("Collecting Samples Complete")
Enter the Name of person: Kapil
```

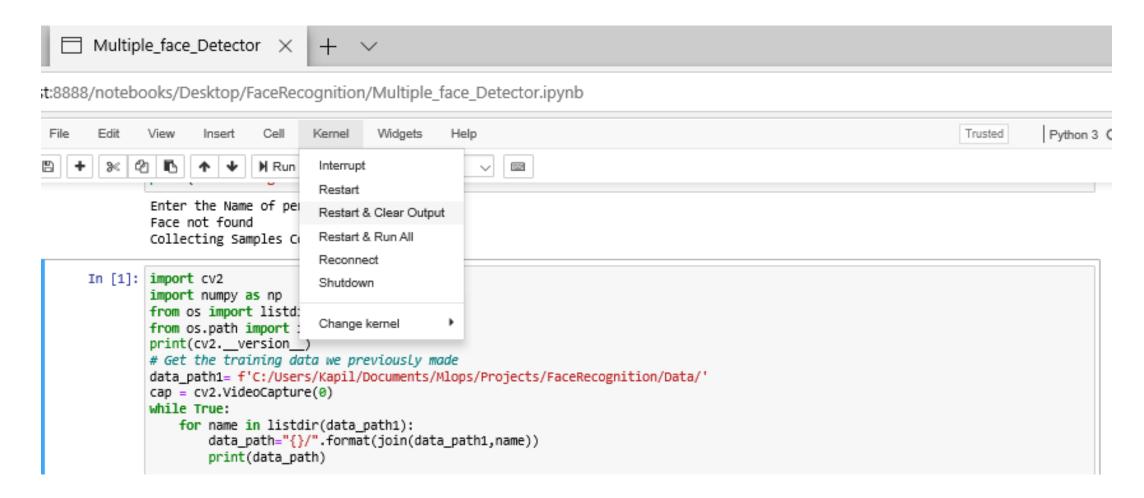
Step 3-> Collecting the images



Step 4-> I have created multiple images of different person in different folder you can also store by continuously running the first cell



Step 4-> Restart the Kernel



Step 5-> Run the second cell once then your camera recognize the person according to your dataset and show his/her name on the screen

To terminate the camera press enter three times continuously.

