```
import cv2
import numpy as np
cap = cv2.VideoCapture(r"C:\Users\gauri\Desktop\OpenCV Media\Tenet.mp4")
whT=320
classFile=[]
with open("coco.names", "rt") as f: classFile = f.read().strip('\n').split('\n')
print(len(classFile))
net=cv2.dnn.readNetFromDarknet("yolov3.cfg", "yolov3.weights")
net.setPreferableBackend(cv2.dnn.DNN_BACKEND_OPENCV)
net.setPreferableBackend(cv2.dnn.DNN_TARGET_CPU)
def findObjects(outputs,img):
    hT,wT,cT=img.shape
    print(img.shape)
    confTh=0.5
    nmsTh=0.3
    classIDs=[]
    confidences=[]
    bbox=[]
    for output in outputs:
         for det in output:
             #print(det)
             score=det[5:]
            classID=np.argmax(score)
            confidence=score[classID]
             if confidence>confTh:
                w, h=int(det[2]*wT), int(det[3]*hT)
x, y=int((det[0]*wT)-w/2), int((det[1]*hT)-h/2)
                 bbox.append([x,y,w,h])
                 classIDs.append(classID)
                 confidences.append(float(confidence))
    indices = cv2.dnn.NMSBoxes(bbox,confidences,confTh,nmsTh)
    for i in indices:
        i=i[0]
        box=bbox[i]
        #print(box)
        x, y, w, h=box[0], box[1], box[2], box[3]
cv2.rectangle(img, (x, y), (x+w, y+h), (60, 20, 220), 2)
        cv2.putText(img, f'{classFile[classIDs[i]].upper()} {int(confidences[i]*100)}%',
                    (x,y-10),cv2.FONT_HERSHEY_SIMPLEX,0.6,(0,252,154),2)
while True:
    success, frm = cap.read()
    blobs= cv2.dnn.blobFromImage(frm,1/255,(whT,whT),[0, 0, 0],1,crop=False)
    net.setInput(blobs)
    layer_names=net.getLayerNames()
    outNames=[layer_names[i[0]-1] for i in net.getUnconnectedOutLayers()]
    outputs=net.forward(outNames)
    print(type(outputs[0]))
    print(outputs[0].shape)
    findObjects(outputs, frm)
    cv2.imshow('Implementation of YOLO Object Detection',frm)
    if cv2.waitKey(5) \& 0xFF == ord('x'):
cap.release()
```