```
import cv2
import numpy as np
#load YOLO
net = cv2.dnn.readNet("yolov3.weights","yolov3.cfg")
classes = []
with open("coco.names", "r") as f:
  classes = [line.strip() for line in f.readlines()]
layer_names = net.getLayerNames()
outputlayers = [layer_names[i-1] for i in net.getUnconnectedOutLayers()]
#loading image
img = cv2.imread("area7.jpeg")
#img = cv2.resize(img,None,fx=0.4,fy=0.3)
height, width, channels = img.shape
print(img.shape)
cv2.imshow("Image",img)
cv2.waitKey(0)
cv2.destroyAllWindows()
blob = cv2.dnn.blobFromImage(img,0.00392,(416,416),(0,0,0),True,crop=False)
##for b in blob:
## for n, img_blob in enumerate(b):
##
      cv2.imshow(str(n), img_blob)
net.setInput(blob)
outs = net.forward(outputlayers)
```

```
class_ids=[]
confidences=[]
boxes=[]
for out in outs:
  for detection in out:
    scores = detection[5:]
    class_id = np.argmax(scores)
    confidence = scores[class_id]
    if confidence > 0.5:
      center_x=int(detection[0]*width)
      center_y=int(detection[1]*height)
      w = int(detection[2]*width)
      h = int(detection[3]*height)
      cv2.circle(img,(center_x,center_y),10,(0,255,0),2)
      x=int(center_x - w/2)
      y=int(center_y - h/2)
      boxes.append([x,y,w,h])
      confidences.append(float(confidence))
      class_ids.append(class_id)
indexes = cv2.dnn.NMSBoxes(boxes, confidences,0.4,0.6)
font = cv2.FONT_HERSHEY_PLAIN
for i in range(len(boxes)):
  if i in indexes:
    x,y,w,h = boxes[i]
    label = str(classes[class_ids[i]])
    color = (255, 0, 0)
    cv2.rectangle(img,(x,y),(x+w,y+h),color,2)
```

cv2.putText(img,label,(x,y+30),font,1,(255,255,255),2)

cv2.imshow("Image",img)

cv2.waitKey(0)

cv2.destroyAllWindows()