import cv2 as cv

import numpy as np

import argparse

#Enter the path of the image that needs to be converted

imgpath = input("input img path:")

#Load pictures

img = cv.imread(imgpath)

#Enter the path of the algorithm model

model = input("input model name:")

#Get the width and height of the picture

(inHeight, inWidth) = img.shape[:2]

#Perform image preprocessing

inp = cv.dnn.blobFromImage(img, 1.0, (inWidth, inHeight),(103.939, 116.779, 123.68), swapRB=False, crop=False)

#Loading algorithm model

net = cv.dnn.readNetFromTorch(model)

#Execute through algorithm model Preprocessed data inp

net.setInput(inp)

#Get the results after the algorithm is executed

out = net.forward()

#Conversion data format

out = out.reshape(3, out.shape[2], out.shape[3])

out[0] += 103.939

out[1] += 116.779

out[2] += 123.68

#Convert to data that can be saved as a picture

out = out.transpose(1, 2, 0)

#Enter the name of the saved data

outputname = input("input your output file name:")

#Save the results after the algorithm runs

cv.imwrite(outputname, out, [20, 80])