##Recognise what type of objects are in SanFrancisco.jpg and WarsawByTytusBrzozowski.jpg

##Put the above mentioned image files and python file in the same folder and then run the python file

##can take up to 30-45 minutes on normal laptop

from tensorflow.keras.preprocessing import image

from tensorflow.keras.applications import vgg16

import numpy as np

from pprint import pprint

# load the pre-trained model

model = vgg16.VGG16(weights='imagenet')

# recognize a bath of images in one run

# load a batch of images

img\_paths = ['SanFrancisco.jpg','WarsawByTytusBrzozowski.jpg']

batch\_of\_images = []

for path in img\_paths:

img = image.load\_img(path, target\_size=(224, 224))

img = image.img\_to\_array(img)

img = vgg16.preprocess\_input(img)

batch\_of\_images.append(img)

batch\_of\_images = np.stack(batch\_of\_images) # turn list of array to an array

# recognize them

predict = model.predict(batch\_of\_images)

results = vgg16.decode\_predictions(predict)

pprint(results)