```
In [5]: import numpy as np
                   from tensorflow.keras.preprocessing import image
                   from tensorflow.keras.applications.resnet50 import ResNet50, preprocess_input, decode_
                    # Load the ResNet50 model
                   model = ResNet50(weights='imagenet')
                    # Define a function to predict the class of an image
                    def predict_image(image_path):
                             img = image.load_img(image_path, target_size=(224, 224))
                            x = image.img_to_array(img)
                            x = np.expand_dims(x, axis=0)
                            x = preprocess input(x)
                            preds = model.predict(x)
                             return decode_predictions(preds, top=1)[0][0]
                    # Predict the class of each image and save the results
                    images = ['C:/Users/chris/OneDrive/Desktop/Boots.jpg', 'C:/Users/chris/OneDrive/Desktop/Boots.jpg', 'C:/Us
                    results = []
                    for image path in images:
                             result = predict image(image path)
                             results.append(result)
                            print(image path + ': ' + result[1])
                    np.save('dsc650/assignments/assignment06/results/Assignment 6.3', results)
                   1/1 [======= ] - 22s 22s/step
                   C:/Users/chris/OneDrive/Desktop/Boots.jpg: cowboy boot
                   C:/Users/chris/OneDrive/Desktop/Slipper.jpg: knee pad
                   1/1 [=======] - 12s 12s/step
                   C:/Users/chris/OneDrive/Desktop/Adidas.jpg: running shoe
                   C:/Users/chris/OneDrive/Desktop/Nike.jpg: running shoe
                   1/1 [=======] - 13s 13s/step
                   C:/Users/chris/OneDrive/Desktop/Ankleboots.jpg: Loafer
In [ ]:
```