

```
In [4]: from imageai.Classification import ImageClassification
from os import listdir
from os.path import isfile, join
import os

execution_path = os.getcwd()

prediction = ImageClassification()
prediction.setModelTypeAsResNet50()
prediction.setModelPath(os.path.join(execution_path, "resnet50_imagenet_tf.2.0.h5"))
prediction.loadModel()

execution_path += "\someFruits"
fileNames = [f for f in listdir(execution_path) if isfile(join(execution_path, f))]

for fileName in fileNames:
    predictions, probabilities = prediction.classifyImage(os.path.join(execution_path, f
        for eachPrediction, eachProbability in zip(predictions, probabilities):
            print(fileName[0:-4] + ' - ' + eachPrediction)
```

```
apple - Granny_Smith
bottle - beer_bottle
lemon - lemon
strawberry - strawberry
tomato - hair_slide
```

```
In [5]: from imageai.Detection import VideoObjectDetection
import os

execution_path = os.getcwd()

detector = VideoObjectDetection()
detector.setModelTypeAsYOLOv3()
detector.setModelPath(os.path.join(execution_path, "yolo.h5"))
detector.loadModel()

video_path = detector.detectObjectsFromVideo(input_file_path=os.path.join(execution_path,
    output_file_path=os.path.join(execution_path, "movietask
        frames_per_second=30, log_progress=True)

print(video_path)
```

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C:\Aprogramming\University\PythonPractice\task5\movietasklab5\_new.avi

In [ ]: