In [4]:

```
from imageai.Detection import ObjectDetection
import os

execution_path = os.getcwd()

detector = ObjectDetection()
detector.setModelTypeAsRetinaNet()
detector.setModelPath(os.path.join(execution_path, 'resnet50_coco_best_v2.0.1.h5'))
detector.loadModel()
detections = detector.detectObjectsFromImage(input_image = os.path.join(execution_path, 'image3.png'), output_image_pa
th = os.path.join(execution_path, 'image3_new.png'))

for eachObject in detections:
    print(str(eachObject['name']), ':', str(eachObject['percentage_probability']))
    print("..........................................................................")
```

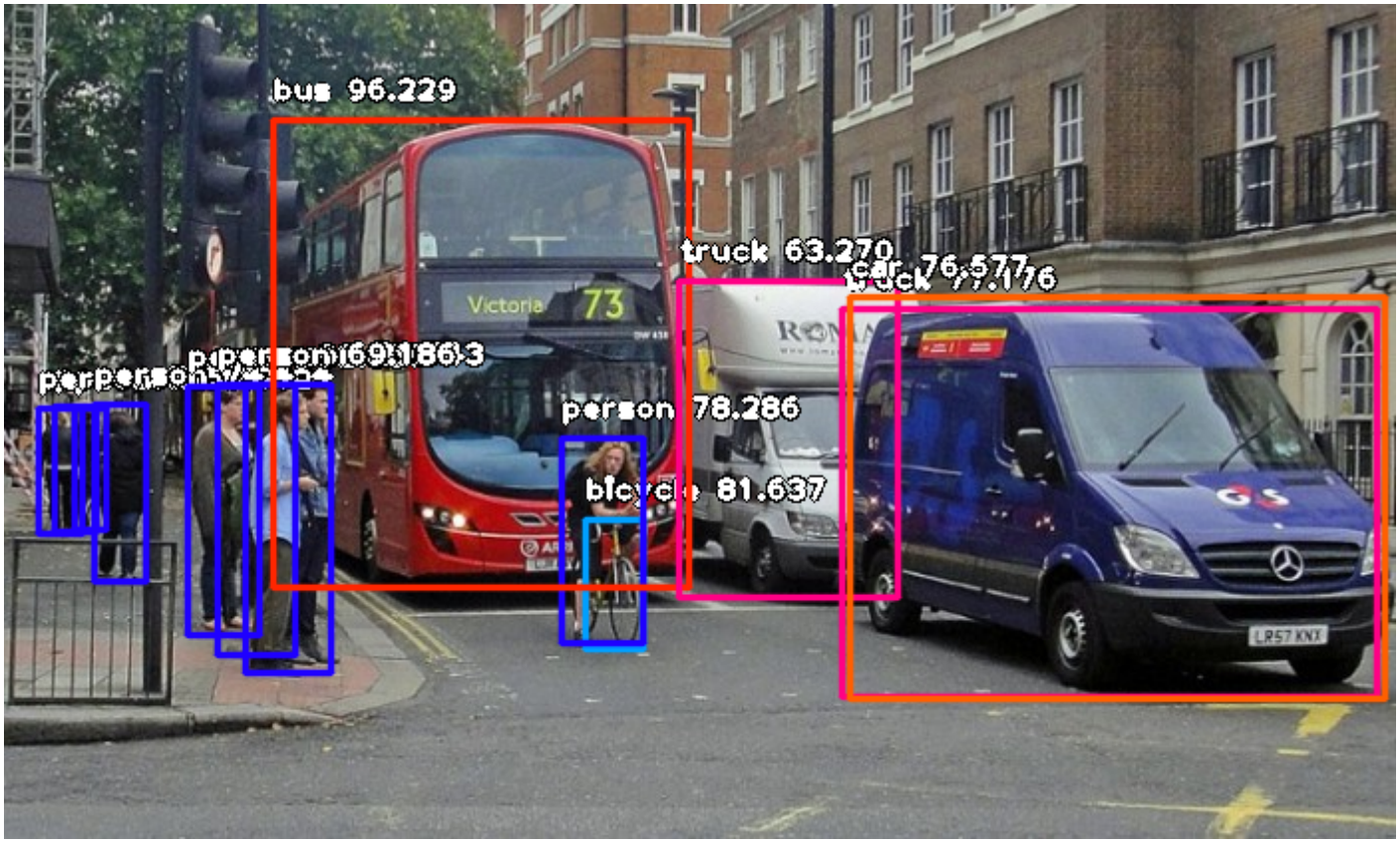
person : 57.64918923377991
.....
person : 50.66218376159668
.....
person : 72.15651273727417
.....
person : 74.45362210273743
.....
bicycle : 81.63677453994751
.....
person : 82.83692598342896
.....
person : 89.743173122406
.....
person : 69.18604373931885
.....
person : 78.2858669757843
.....
bus : 96.22890949249268
.....
truck : 63.270390033721924
.....
truck : 77.176034450531
.....
car : 76.57684683799744
.....

In [6]:
```
from IPython.display import Image
Image('image3.png')
```

Out[6]:

In [7]:
```
Image('image3_new.png')
```

Out[7]:



In [10]:
```
detections, extracted_images = detector.detectObjectsFromImage(input_image = os.path.join(execution_path, 'image3.png'
), output_image_path = os.path.join(execution_path, 'image3_new1.png'), extract_detected_objects = True)
```

In [15]:
```
custom_objects = detector.CustomObjects(person = True)
detections = detector.detectCustomObjectsFromImage(input_image = os.path.join(execution_path, 'image3.png'), output_im
age_path = os.path.join(execution_path, 'image3_new2.png'), custom_objects = custom_objects)

Image('image3_new2.png')
```

Out[15]:

In [ ]: