**Q7)** 1783 boxes resulted from filtering based on the confidence score and class probability. The Original box count should be 1805 (19 \* 19 \* 5, gird size of 19 \* 19, and 5 anchor boxes). But after filtering, low confidence boxes were filtered out and only 1783 boxes were passed.

The minimum number is 0

The maximum number is 1805

**Q8)** Advantage of using anchor boxes includes efficient object detection, improved handling of different object aspects ratios, and scales, Reduction of computational complexity.

A road with trees and grass

Description automatically generatedA road with trees and grass

Description automatically generated10.

Correctly detected objects – Car, Fire hydrant

Not detected objects – Cab, Traffic lights

A crosswalk with red lights

Description automatically generated

Correctly detected objects – Cab, Traffic Lights

Not detected objects – Bus, Traffic Lights