1. Shape of the boxes.eval() is (1783,4). Why are there 1783 boxes? Explain the reason for It, What is the maximum number and minimum number you can get for that?

**Why are there 1783 boxes?**  
The model predicts many possible locations (or boxes) where objects could be in the image. It does this to make sure it doesn't miss anything. That's why you see 1783 boxes.

**What is the maximum and minimum number you can get for that?**  
The number of boxes can change depending on how you adjust certain settings in the model, like how finely it divides the image into grids or how strict it is in deciding if something is an object.

1. yolo\_anchors.txt contains 10 values. They can be considered as height and width of 5 anchor boxes. What is the advantage of using such anchor boxes? What was the method used to determine the sizes of these anchor boxes?

**What is the advantage of using anchor boxes?**  
Anchor boxes help the model detect objects of different shapes and sizes more accurately. They give the model a better chance of finding objects in the image, even if they have different widths and heights.

**What method was used to determine the sizes of these anchor boxes?**  
The sizes of the anchor boxes are chosen by looking at a lot of examples of objects in images and finding common sizes. This way, the model knows what size boxes work best for finding objects.