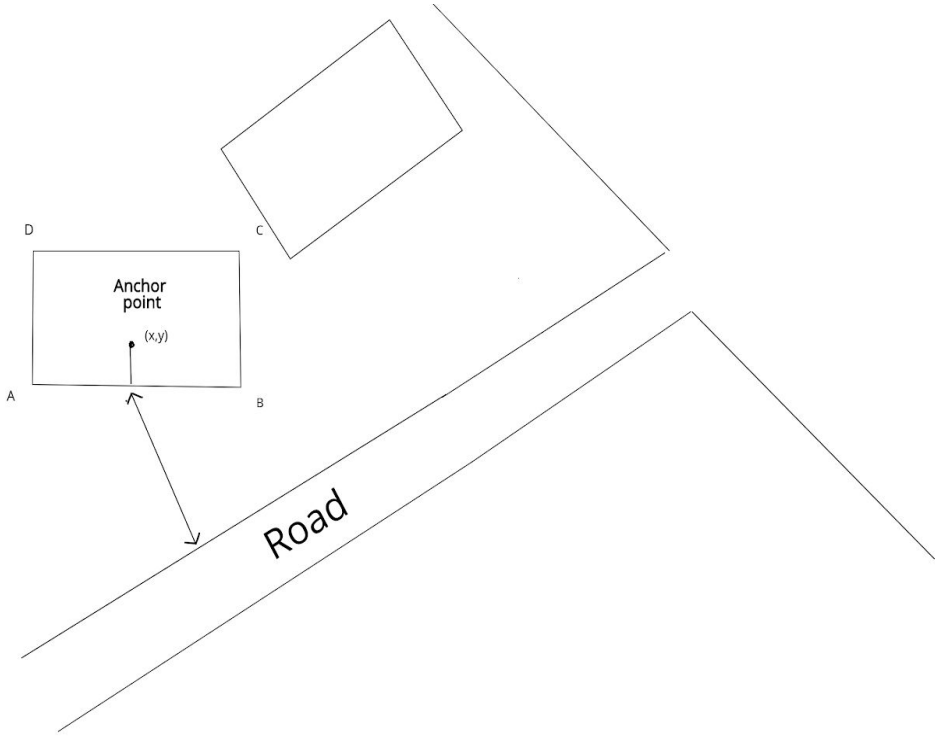
Data description :

The image folder contains a set of images with samples of road / buildings / vegetation cover
Image dimension : 640 x 500

The midpoint of each image is considered as the location of a shop.

Your task is to find the distance from the **front** side of the shop to the nearest road/building in the same direction.

For example: (x,y) is the anchor point which lies inside the building (A B C D) polygon. The anchor point is closest to the side AB and hence is the front side of the building.The distance in this case will be from AB to the road and not the other building



Also note, in some cases the anchor point might not be within the bound of a building, in which case, it would be the distance from the anchor point instead of the line segment

Output:

1.) Relevant Python codes.

Create a .py file which takes as the file_name as an argument and returns in the below format . Alternatively, you can create a notebook has all the relevant functions and a main function to accept an image

Format of output:

Image_name, Distance,Flag

tmp1 ,55,Road

tmp2 ,105,Building

Timeline for submission : 48 hours