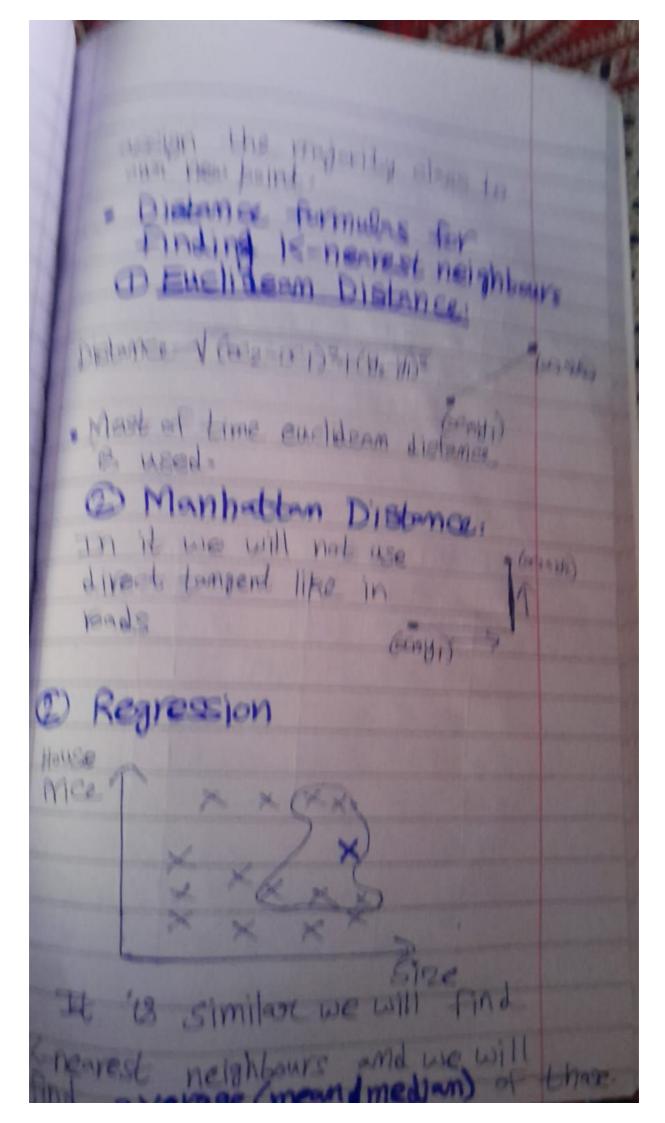
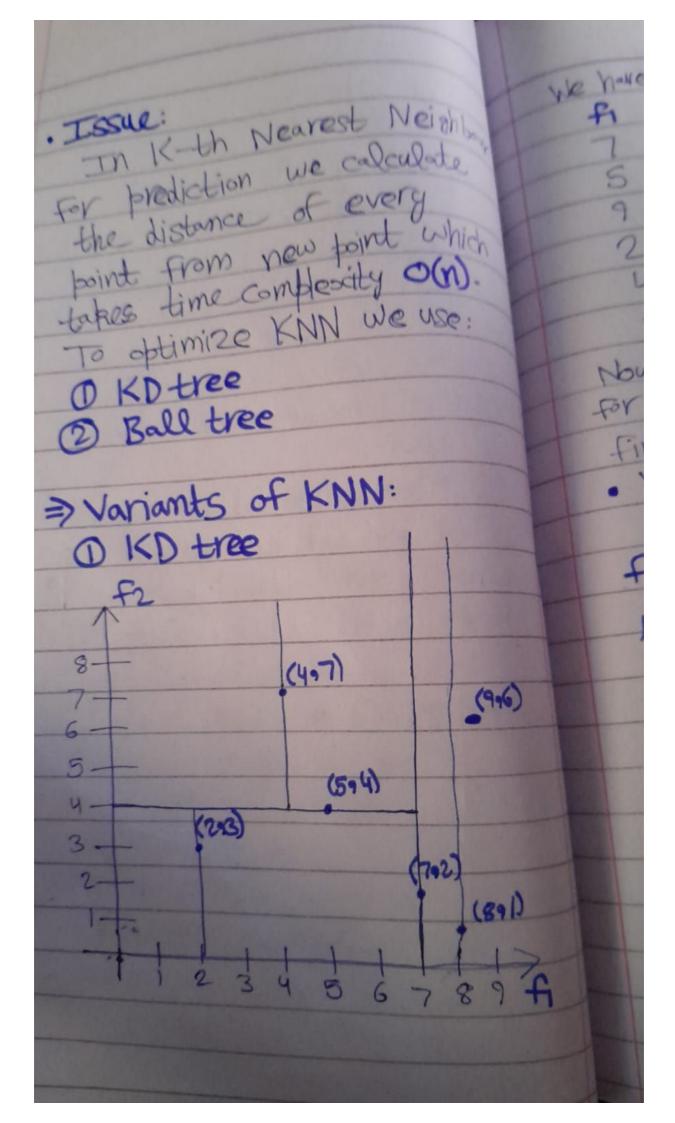


Stepol: We have to specify K-value i.e K=1,2,3,4,5 or any W Hyperparameter (we will try different value of K in cross-validation and bick one which give highest accuracy) 6tep 02: Find the K-nearest neighbours of new test data i.e we have a new point in the graph drawn on previous bage and K=5, we will find 5 nearest neighbours from that new point according to distance Step: 03: From nearest neighbours. we found the count-that how many of them belongs to o class and how many telong to I class and we will





We have dataset 9 6 2 3 Now we will construct KD tree for decreasing time complexity of find K nearest neieigbours . We will take median of fl and for fi = 2949159798,9 (sorted form) Median = 5+7 = 6.57 we will pick 7 from x-axis and draw line as there is no 6.5 fr= 1,29/394/9697 (Sorted form) Median = 3+4 = 3.57 We will bick 4 from y-axis and draw line as there is no 3:5 So we will keep making groups by taking median of remaining and construct tree

