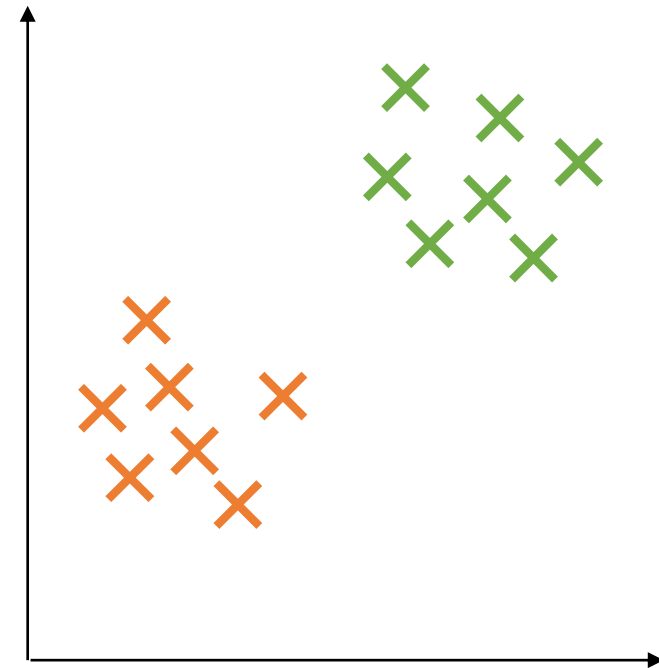
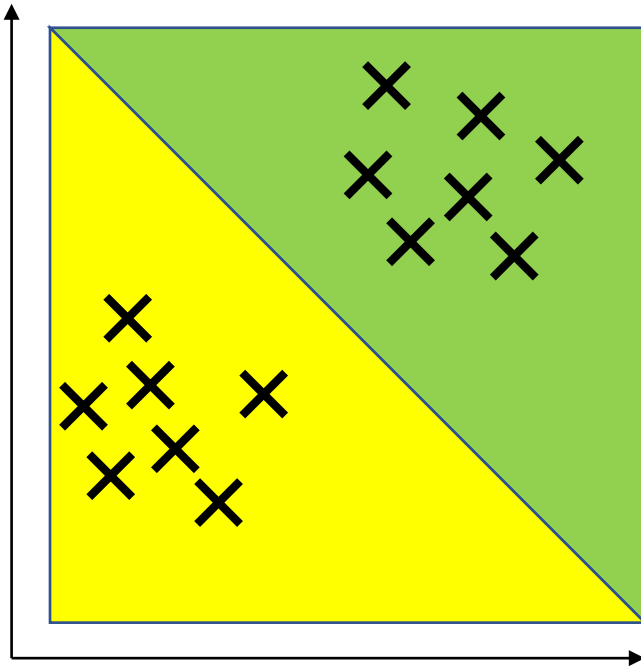
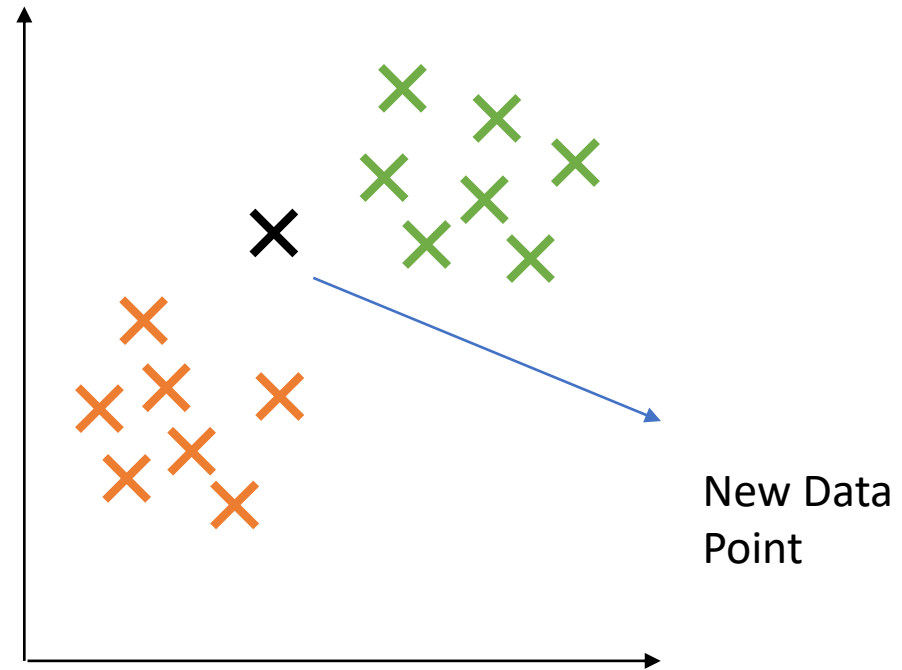
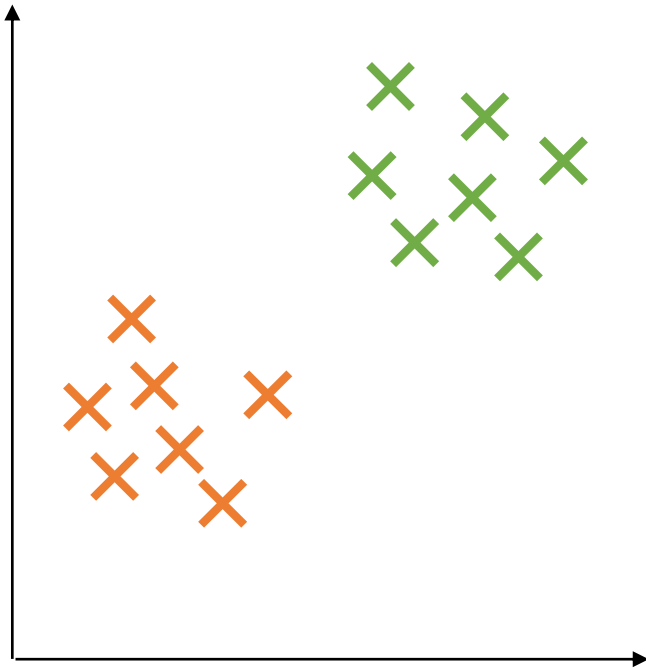


K Nearest Neighbors: -

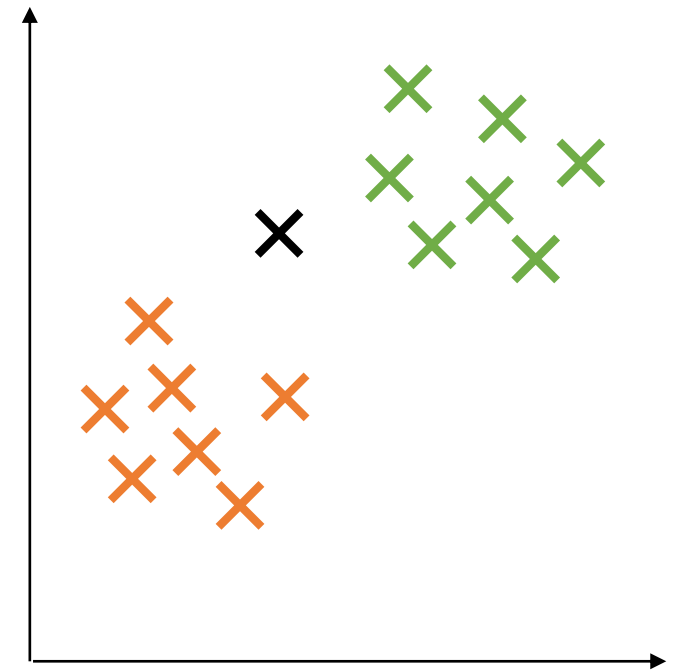




- Choose the number of K neighbour's.
- Find the distance between the new point and the nearest neighbours.
- Count the no of neighbour's in each category and assign the new point to that category.

Example: -

- Suppose we have chosen 5 as k.
- Find distance b/w the new point the nearest Neighbours using Euclidean Distance.
- If out of 5 points 3 points lie in yes category then assign the new point to yes category.



$$\text{Euclidean Distance} = \sqrt{(X_2 - X_1)^2 + (Y_2 - Y_1)^2}$$