K-Nearest Neighbour:

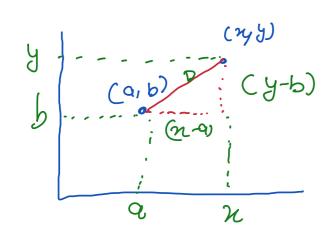
Now the einle contain 2# and 1 # Class 80 KNN chase frequently occurred Class.

So, our answer will be + elev.

here we got that we have to work on clistances. Let us see how many ways we have to late clistance. il Euclidean

- ii) Manhattan
- iii hamming

il Euclidean distance:



$$h^{2} = P^{2} + B^{2}$$

$$D^{2} = (y-b)^{2} + (x-a)^{2}$$

$$= \sqrt{(y-b)^{2} + (x-a)^{2}}$$

Now this is for 2-Dimension let us see for d dimension:

$$= \left(\frac{d}{d} \left(\chi_i - \alpha_i \right)^2 \right) | \ell_2$$

ii) Manhattan distance

It is the Lotal length covered

between two points.

$$y = (n,y)$$

$$b = y + b$$

$$for d dimensions$$

$$\begin{cases} (n,y) \\ b = y + b \end{cases}$$

$$\begin{cases} (n,y) \\ (n,y) \\$$

Generalized ferm:
$$\left(\underbrace{\leq}_{i=1} \left(\chi_{i} - \alpha_{i} \right)^{p} \right)^{1/p}$$

Hamming Distance:

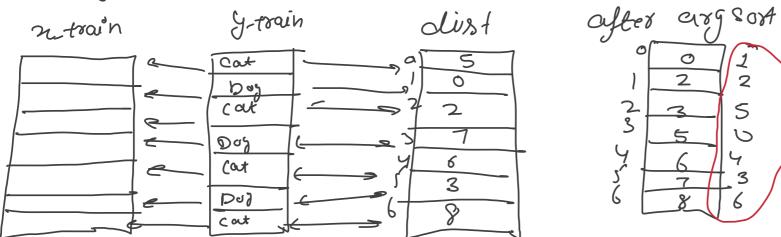
This fells the uncommon elements.

$$h(a,b) = 0$$
 (are lemmon)

Now The Scratch implementation:

In Sexuten implementation one thing need to know is that we are only working when we are testing on date.





foor any sort array take out k min.

$$(23)$$
: - (23) = $(2,2,5)$

NOW Check for labels: cat cost Dog

Phela Inequently occurred elan - (in this case)

