KN - psuedo code (D, x_i, k)

1. for each (x_i, y_i) in D
   calculate distance $d_i =$ distance (x, x_i)

2. Sort by increasing order of distance d_i

3. select first k samples

4. Count frequency of each class among k neighbors

5. Assign x to class with highest frequency.

6. Return predicted class.