From textbook: Fundamentals of Machine Learning for Predictive Data Analytics: Algorithms, Worked Examples, and Case Studies from MIT Press 2015, do following exercise:

1. (15%) Chapter 5, exercise 2
2. (15%) Chapter 5, exercise 3
3. (15%) Chapter 5, exercise 4
4. (15%) Chapter 5, exercise 5
5. (15%) Chapter 5, exercise 6
6. (25%**,** coding assignment) Could you implement your own KNN function from scratch (without calling any existing classifier packages)? Your own KNN function must have following parameters to tune: n\_neighbors, weights. Can you compare your own classifier with sklearn neighbors.KNeighborsClassifier in terms performance, complexity, etc. Data usage: datasets.load\_iris() from sklearn.