## PROJECT #1 - MapReduce/Hadoop - DUE DATE: April 2<sup>nd</sup>, 2017

In this project you will implement KNN clustering algorithm in MapReduce and apply it on synthetic data that you will create.

- 1. Install Hadoop
- 2. Create using whatever language you want a very large text file, containing at least 1M data points in the form of (x, y), where x and y are real numbers. The generation of should be biased toward the creation of three clusters. In other words, choose a-priori three centers (x1,y1), (x2,y2) and (x3,y3) and generate the rest of the data points around these, using some random distance following a skewed distribution (towards 0)
- 3. Move your file to HDFS
- 4. Implement KNN algorithm as described in the class and apply it in your data set