CS 3006 Parallel and Distribute Computing Assignment #3

Fall 2022

Due Date: Wednesday 7th December, 23:59

CL0#4

Q1: [HDFS] write a survey on some HDFS client application, explaining the whole HDFS architecture as per client application

Q2: [HDFS] What is Google File System (GFS), differentiate between GFS and HDFS.

Q3: [MapReduce] Write and implement MAP and Reduce Functions for the following problems. Also do write input and output of each of map() and reduce().

- a) Maintaining a paragraph-oriented inverted index of terms in a text file
- b) Calculating each word's frequency in a corpus of text
- c) Calculating n-Itemset Frequency count from a set of transactions data files