MapReduce Questions

1. **Find the count of each word from a given input file.**

2. **Create dataset with fields like 'Student Name', 'Institute', 'Program Name', and 'Gender' and solve following questions.**

   a. Compute number of students from each Institute.

   b. Number of students enrolled to any program.

   c. Number of 'boy' and 'girl' students.

   d. Number of 'boy' and 'girl' students from selected Institute.

3. **Dataset: Temperature of Indian Cities. Fields of dataset are Date, Average Temperature, City, Country, Latitude and Longitude (Dataset is attached). Solve following questions**

   a. Find maximum and minimum temperature of all cities from the given dataset

   b. Count number of data point for each city.

   c. Find the maximum and minimum temperature for city **Bangalore** from the given dataset.

   d. Find the maximum and minimum temperature for any given city from the given dataset. City name should be passed through command line argument.

4. **Count the number of words based of character length in a given file.**

   Example:

   Hello world hope all is well Is BDA program boring

   Expected output should be:

   5   3

4   2

3   2

2   2

7   1

5. **Perform log analysis of shared HDFS log file.**