BIG DATA ANALYTICS LAB

List of Programs:

1. Write a Map Reduce Program for displaying the Count of all words in a given file.

2. Write a Map Reduce Program for displaying the Count of all words with a count greater than 5 in a given file.

3. Write a Map Reduce Program for displaying the Count of all bigrams in a given file.

4. Write a Map Reduce program that mines weather data and displays the maximum temperature per year.

5. Implement Matrix Multiplication with Hadoop Map Reduce.

6. Write a pig script that mines weather data and displays the maximum temperature per year.

7. Write a pig script that uses NYSE and NYSE_daily dataset and illustrate the use of filtering the given data with multiple constraints.

8. Write a pig script that uses NYSE and NYSE_daily dataset and illustrate the use of Foreach on the given data.

9. Write a pig script that uses NYSE and NYSE_daily dataset and illustrate the use of join operation on the given data with multiple constraints.

10. Write a pig script that uses NYSE and NYSE_daily dataset and illustrate the use of substring operation on the given data.

11. Write MongoDB queries to perform the following:
    a) Create a collection in MongoDB named “Allcourses” consisting of fields: College name, Course, details{Duration,Trainer}, Batch{size,qty}, Name of the Course, fees, prerequisites
    b) Insert 6 documents into the collection using – insertMany()
    c) Illustrate update(), $set and deleteMany()
    d) Use find() to display results

12. Write MongoDB queries to perform the following:

a) Create a collection in MongoDB named “Student” consisting of fields: regNo, name, course{courseName,duration},address{city, state, country}, schoolname, collegename, aggregate
b) Insert 6 documents into the collection using – insertMany()
c) Illustrate update(), $set and remove()
d) Use find() to display results

13. Write MongoDB queries to perform the following:
a) Create a collection in MongoDB named “Employee” consisting of fields: EmpNo, EmpName, Department{departmentName,years, designation}, address{city, state, country}
b) Insert 6 documents into the collection using – insertMany()
c) Illustrate update(), $set and replaceOne()
d) Use find() to display results