Lab Work – 1

Question 1:

- Create two directories ‘dir1’ and ‘dir2’ using a single hdfs command inside home directory of hdfs. The dir2 should be subdirectory of dir1.
- Verify that the two folders have been created in the above path Inside dir 2
- Create an empty file, file1.txt
- Create a file file2.txt in local filesystem with some text inside it
- Copy file2.txt from local to hdfs inside dir2.
- List the subdirectories and files inside dir1 recursively
- List the files inside dir2 ,sorted by size but size should be displayed in KBs/MBs and not bytes
- Rename the file, file2.txt to file3.txt
- Remove the directory dir1 using a single command.

Question 2:

- Create a text file myfile.txt with 5 lines in home directory of local filesystem:
  - Display last 3 lines of that file.
  - Display all lines of that text file except first line.

Question 3:

- Create a directory inside home directory of local filesystem named ‘test’
- Create few empty files inside the test directory namely a.pdf, b.html, c.xml
- List the files in reverse alphabetical order of file name
- Display only the file which ends with .html extension

Question 4:

- Create two new text files, file1 and file2 , with following content using cat command in your linux home directory:
  - file1: This is from file1
  - file2: This is from file2
- Display the contents of the file 1 and file2 using cat command
- Concatenate the contents of the two files and put them into a new file file3 and
- display the results.
- Count the number of lines and number of words in the file3.

Question 5:

- Suppose there is file of size 514 MB stored in HDFS (Hadoop 2.x) using default block size configuration and default replication factor:
- How many blocks will be created in total?
- What will be the size of each block?