#### **Instructions for Execution**

- 1) create project directory : (wordcount)
  - a) Browse to home directory cd /home/iitp
  - b) Create project directory mkdir **wordcount**
- 2) Create source file: (WordCount.java)
  - a) Browse into wordcount directory cd /home/iitp/wordcount
  - b) nano WordCount.java paste the lines from the source code provided
- 3) Create input directory (**inputdata**) for input files cd /home/iitp/wordcount mkdir **inputdata**
- 4) Copy the input file (input.txt) into inputdata folder cd /home/iitp/wordcount/inputdata nano input.txt paste the lines from the provided input file
- 5) Start all hadoop services
  - a) Browse to hadoop installation sbin directory cd /home/iitp/hadoop-2.6.0/sbin
  - b) start all services./start-all.shEnter password as required
- 6) Create input directory on HDFS
  - a) browse to hadoop installation bin folder cd /home/iitp/hadoop-2.6.0/bin
  - b) create directory
    ./hadoop fs -mkdir /wordcount

c) create sub-directory inside wordocunt on HDFS ./hadoop fs -mkdir /wordcount/inputdata

# 7) Copy the input text file from local directory to HDFS

- a) browse to hadoop installation bin folder cd /home/iitp/hadoop-2.6.0/bin
- b) Copy from Local

./hadoop dfs -put

/home/iitp/wordcount/inputdata/input.txt /wordcount/inputdata/

## 8) Compile the Java Source File

- - b) browse to bin folder of hadoop installation cd /home/iitp/hadoop-2.6.0/bin
  - c) compile

./hadoop com.sun.tools.javac.Main /home/iitp/wordcount/WordCount.java

### 9) Create Jar file

a) Browse to wordcount directory on your VM cd /home/iitp/wordcount jar cf wc.jar WordCount\*.class

### 10) Running the WordCount program

- a) browse to the bin directory of hadoop installation cd /home/iitp/hadoop-2.6.0/bin
- b) Running in terminal

./hadoop jar /home/iitp/wordcount/wc.jar WordCount /wordcount/inputdata/ /wordcount/outputdata

b) Finding outputs
./hadoop fs -cat /wordcount/outputdata/part-r-00000