1. **Words per Line Use Case:**

**Input**: Input.txt

**Code**: wordsPerLine.java

**Exported jar file**: wordsPerLine.jar

**Commands**:

cp /home/mrinmoy/Downloads/MapReduce/Input.txt .

cp /home/mrinmoy/Downloads/MapReduce/wordsPerLine.jar .

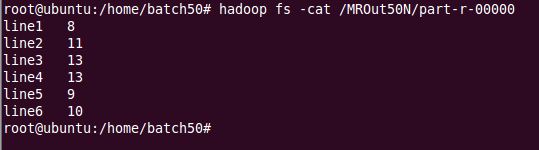
hadoop fs –mkdir /MR

hadoop fs –put input.txt /MR

hadoop jar wordsPerLine.jar wordsPerLine /MR/Input.txt /MROut50

hadoop fs –cat /MROut50/part-r-00000

**Output:**



1. **Static Word Count:**

**Input:** Input-Big.txt

**Code:** countOfOneWord.java

**Exported jar file:** countOfOneWord.jar

**Commands:**

cp /home/mrinmoy/Downloads/MapReduce/Input-Big.txt .

cp /home/mrinmoy/Downloads/MapReduce/countOfOneWord.jar .

hadoop fs –put Input-Big.txt /MR

hadoop jar countOfOneWord.jar countOfOneWord /MR/Input-big.txt /MROutput50

hadoop fs –cat /MROutput50/part-r-00000

**Output:**

**C:\Users\Administrator\Pictures\Static Word Count.JPG**

1. **Dynamic Word count:**

**Input:** Input-Big.txt

**Code:** dynamicWordCount.java

**Exported jar file:** dynamicWordCount.jar

**Commands:**

cp /home/mrinmoy/Downloads/MapReduce/Input-Big.txt .

cp /home/mrinmoy/Downloads/MapReduce/ dynamicWordCount.jar .

hadoop jar dynamicWordCount.jar dynamicWordCount /MR/Input-big.txt /MROuts good

hadoop fs –cat /MROuts/part-r-00000

**Output:**

C:\Users\Administrator\Pictures\dynamicWordCount.JPG

1. **Vowels per word Use case:**

**Input:** Input-Big.txt

**Code:** vowelsPerWord.java

**Exported jar file:** vowelsPerWord.jar

**Commands:**

cp /home/mrinmoy/Downloads/MapReduce/Input-Big.txt .

cp /home/mrinmoy/Downloads/MapReduce/ vowelsPerWord.jar .

hadoop jar vowelsPerWord.jar vowelsPerWord /MR/Input-big.txt /MROutN hadoop

hadoop fs –cat /MROutN/part-r-00000

**Output:**

1. **Maximum words in a line Use case:**

**Input:** Input-Big.txt

**Code:** maxWords.java

**Exported jar file:** maxWords.jar

**Commands:**

cp /home/mrinmoy/Downloads/MapReduce/Input-Big.txt .

cp /home/mrinmoy/Downloads/MapReduce/maxWords.jar .

hadoop jar maxWords.jar maxWords /MR/Input-big.txt /MROutNew

hadoop fs –cat /MROutNew/part-r-00000

**Output:**

1. **Device Count Use case:**

**Input:** RouterCount.txt, HubCenter.log, SwitchesCount.log

**Code:** deviceCount.java

**Package name:**com.mapred.deviceCount

**Exported jar file:** deviceCount.jar

**Commands:**

cp /home/mrinmoy/Downloads/MapReduce/RouterCount.txt .

cp /home/mrinmoy/Downloads/MapReduce/HubCenter.log .

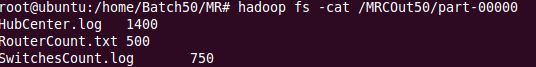
cp /home/mrinmoy/Downloads/MapReduce/SwitchesCount.log .

cp /home/mrinmoy/Downloads/MapReduce/deviceCount.jar .

hadoop jar deviceCount.jar com/mapred/deviceCount/deviceCount /MR/\* /MRCOut50

hadoop fs –cat / MRCOut50/part-00000

**Output:**



1. **Compression Codec Usecase:**

**Input:** Scores.txt

**Code:** compressCodec.java

**Package name:**com.mapred.compressCodec

**Exported jar file:** compressCodec.jar

**Commands:**

cp /home/mrinmoy/Downloads/MapReduce/Scores.txt .

cp /home/mrinmoy/Downloads/MapReduce/compressCodecjar .

hadoop fs –put Scores.txt /MR

hadoop jar compressCodec.jar com/mapred/compressCodec/compressCodec /MR/Scores.txt /MROutput50

1. **Snappy Codec:**

**Input:** Scores.txt

**Code:** compressCodec.java

**Package name:**com.mapred.compressCodec

**Exported jar file:** compressCodec.jar

**Commands:**

cp /home/mrinmoy/Downloads/MapReduce/Scores.txt .

cp /home/mrinmoy/Downloads/MapReduce/compressCodecjar .

hadoop fs –put Scores.txt /MR

hadoop jar compressCodec.jar com/mapred/compressCodec/compressCodec /MR/Scores.txt /MROutput50