# Implement word count/frequency programs using MapReduce

## AIM:

To implement word count / frequency programs using MapReduce with Python in Hadoop.

#### **PROCEDURES:**

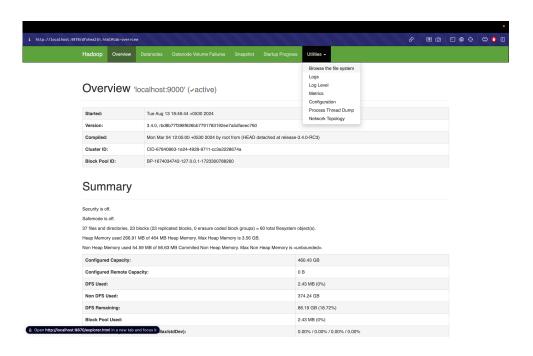
- 1. Open the terminal and start Hadoop using start-all.sh command
- 2. Open the browser and go to the URL localhost:9870.
- 3. In the terminal using the command hadoop fs -mkdir /user create a directory called user.
- 4. Upload the input.txt file to hdfs using the command hadoop fs -put input.txt /user.

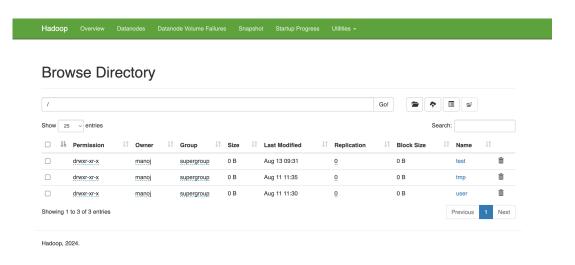
Then perform the mapreduce operation using the command hadoop jar /path/to/hadoop-streaming.jar \

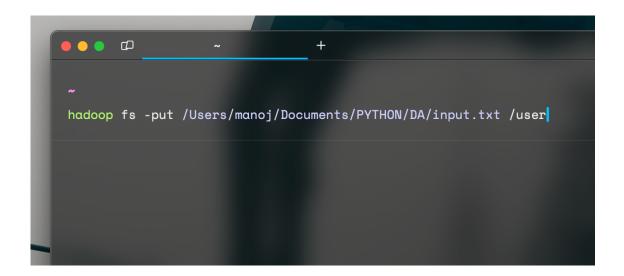
- -files /path/to/mapper.py, /path/to/reducer.py \
- -input /path/to/input \
- -output /path/to/output \
- -mapper mapper.py \
- -reducer reducer.py
- Check the output using the command hadoop fs -cat /user/output/part-00000.

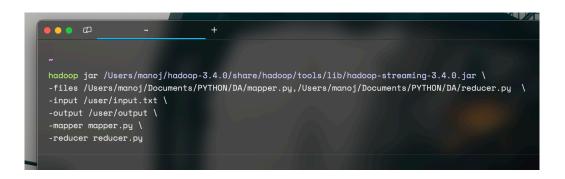
# **OUTPUT:**









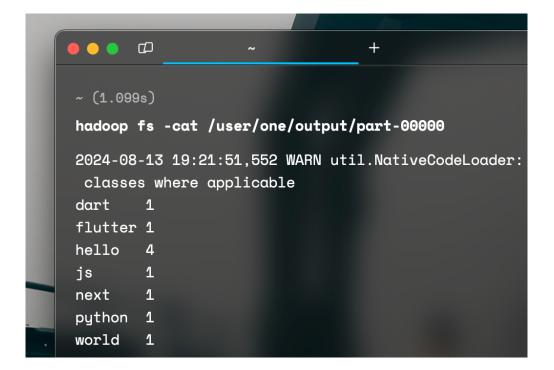


```
Physical memory (bytes) snapshot=0
Virtual memory (bytes) snapshot=0
Total committed heap usage (bytes)=771227648

Shuffle Errors
BAD_ID=0
CONNECTION=0
IO_ERROR=0
WRONG_LENGTH=0
WRONG_MAP=0
WRONG_MEDUCE=0

File Input Format Counters
Bytes Read=87
File Output Format Counters
Bytes Written=54

2024-08-13 19:18:32,836 INFO streaming.StreamJob: Output directory: /user/one/output1
```



## **RESULT:**

Thus, to implement the word count program using MapReduce in hadoop has been completed successfully.