**Mapper:**

import sys

import io

inputstream = io.TextIOWrapper(sys.stdin.buffer)

for line in inputstream:

words = line.split()

for word in words:

print("%s \t %s" %(word,1))

**Reducer:**

import sys

import io

current\_word = None

current\_count = 0

word = None

for line in sys.stdin:

word,count = line.split('\t',1)

count = int(count)

if current\_word == word :

current\_count += count

else:

if current\_word:

print("%s \t %s" % (current\_word,current\_count))

current\_count = count

current\_word=word

if current\_word == word:

print("%s \t %s " % (current\_word,current\_count))

**Output:**

hduser@student-ThinkCentre-M700:~$ hadoop jar /usr/local/hadoop/share/hadoop/tools/lib/hadoop-streaming-3.3.4.jar -input /3058/data.txt -output /3058/pyhdp\_output -mapper 'python3 3058/Group\_B/mapper.py' -reducer 'python3 3058/Group\_B/reducer.py'

hduser@student-ThinkCentre-M700:~$ hdfs dfs -cat /3058/pyhdp\_output/\*

2025-04-22 14:22:41,405 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

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