1NT19IS108 CHAITANYA P C1 BATCH

Exercise-3: MAPREDUCE

Use the Hadoop framework to write a custom MapReduce program to perform word count operation on a custom data set.

Initially create a new project, package and class in eclipse to run a java code.

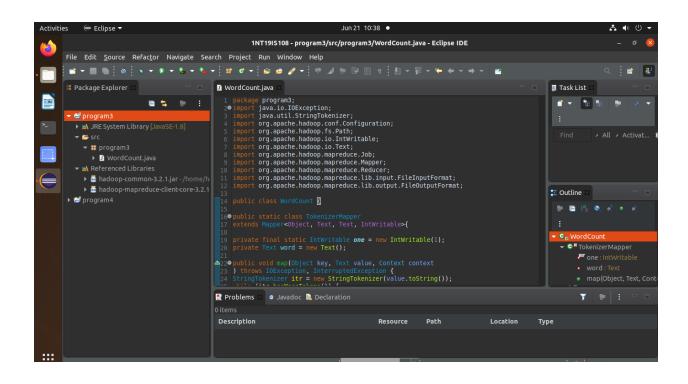
To install jar files:

Right click on project (Mapreduce)

Click on -> build a path -> add external archives -> Hadoop 3.2.1 -> share

In share 1. Click on common -> open hadoop-common-3.2.1.jar

2. Click on mapreduce -> open hadoop-mapreduce-client-core-3.2.1.jar



IN TERMINAL:

Run the commands:

cd \$HADOOP HOME

cd sbin

jps

start-all.sh

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ cd $HADOOP_HOME
hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1$ cd sbin
hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ jps
4999 ResourceManager
7241 org.eclipse.equinox.launcher_1.5.600.v20191014-2022.jar
4811 SecondaryNameNode
5148 NodeManager
4428 NameNode
4572 DataNode
8511 Jps
hdoop@admin1-HP-280-G4-MT-Business-PC:~/hadoop-3.2.1/sbin$ start-all.sh
MARNING: Attempting to start all Apache Hadoop daemons as hdoop in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL-C to abort.
Starting namenodes on [localhost]
localhost: namenode is running as process 4428. Stop it first.
Starting datanodes
localhost: datanode is running as process 4572. Stop it first.
Starting secondary namenodes [admin1-HP-280-G4-MT-Business-PC]
admin1-HP-280-G4-MT-Business-PC: secondarynamenode is running as process 4811. Stop it first.
Starting resourcemanager
resourcemanager is running as process 4999. Stop it first.
Starting nodemanagers
localhost: nodemanager is running as process 5148. Stop it first.
```

hdfs dfs -mkdir -p ~ /inputchait

hdfs dfs -appendToFile - ~/inputchait/1008.txt

Create a file and add content to it. ->(ctrl D two times)

```
ndoop@admin1-HP-280-G4-MT-Business-PC:-/hadoop-3.2.1/sbin0 hdfs dfs -mkdir -p - /inputchait
ndoop@admin1-HP-280-G4-MT-Business-PC:-/hadoop-3.2.1/sbin0 hdfs dfs -appendToFile - -/inputchait/1008.txt
nat is the hat of all of all the hats2022-06-21 10:30:18,771 INFO sas1.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostT
rusted = false
```

hadoop jar /home/hdoop/Desktop/chaitanya0.jar ~/inputchait ~/outputchait

```
DebopMeanini-Wi-200-di-Wi-T Woulsines-RC: (hadoop-3.2 ifshain haloop jer /home/cloop/Destatop/Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Continues-Co
```

hdfs dfs -cat ~/outputchait/part*

```
Bytes Written=35

hdoop@admin1-HP-280-G4-MT-Business-PC:-/hadoop-3.2.1/sbin$ hdfs dfs -cat ~/outputchait/part*

2022-06-21 10:33:14,555 INFO sas1.Sas1DataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false all 2

hat 2

hats 1

is 1

of 2

the 2

hdoop@admin1-HP-280-G4-MT-Business-PC:-/hadoop-3.2.1/sbin$
```