### EXP NO: 4

### **CREATE UDF IN PIG**

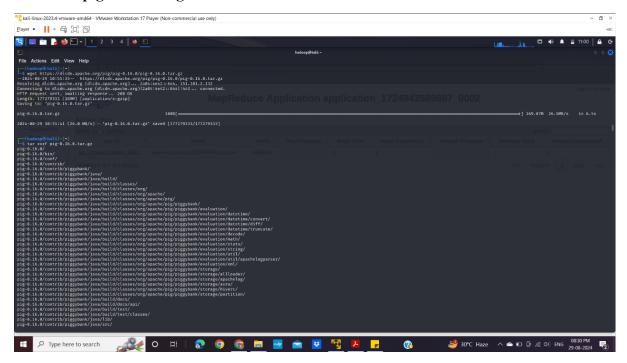
### **\$start-all.sh**

# \$ jps

```
(hadoop® kali)-[-]
$ jps
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
14436 NodeManager
16772 Jps
13830 SecondaryNameNode
14311 ResourceManager
13597 DataNode
13471 NameNode
```

**\$wget** https://dlcdn.apache.org/pig/pig-0.16.0/pig-0.16.0.tar.gz

## \$ tar xvzf pig-0.16.0.tar.gz

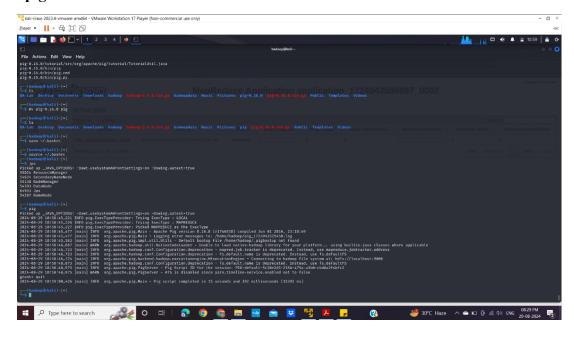


### \$nano ~/.bashrc

```
#PIG settings
export PIG_HOME=/home/hadoop/pig
export PATH=$PATH:$PIG_HOME/bin
export PIG_CLASSPATH=$PIG_HOME/conf:$HADOOP_HOME/etc/hadoop/
export PIG_CONF_DIR=$PIG_HOME/conf
#export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
export PIG_CLASSPATH=$PIG_CONF_DIR:$PATH
#PIG setting ends
```

# **\$mv pig-0.16.0 pig**

# \$pig



# Scd DA-Lab Smkdir exp4 Scd exp4 Snano sample.txt

```
File Actions Edit View Help

GNU nano 7.2

1, John
2, Jane
3, Joe
4, Emma
```

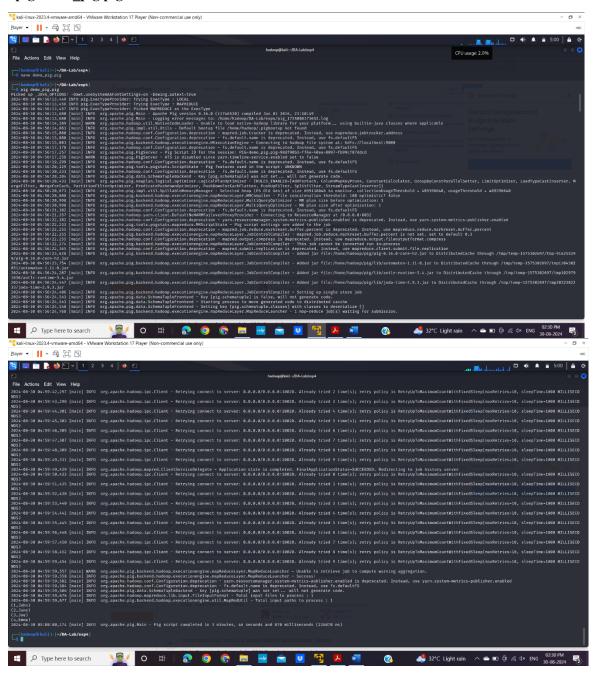
# \$nano demo\_pig.pig



\$hdfs dfs -mkdir /exp4

\$hdfs dfs -copyFromLocal ~/DA-Lab/exp4/sample.txt /exp4

## \$pig demo\_pig.pig



## \$nano uppercase\_udf.py

### \$hdfs dfs -copyFromLocal ~/DA-Lab/exp4/uppercase udf.py /exp4

### \$nano udf example.pig

```
File Actions Edit View Help

GNU nano 7.2

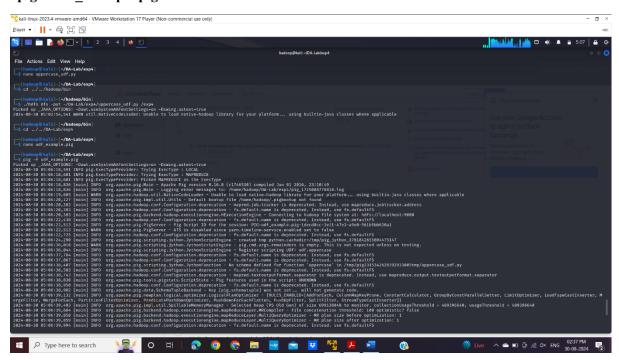
- Register the Python UDF script
REGISTER 'hdfs:///exp4/uppercase_udf.py' USING jython AS udf;

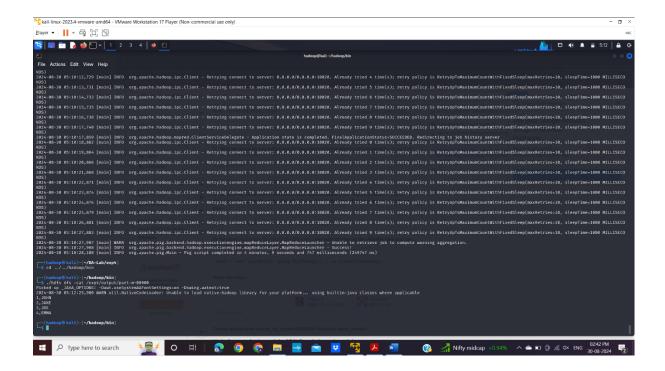
-- Load some data data = LOAD 'hdfs:///exp4/sample.txt' AS (text:chararray);

-- Use the Python UDF
uppercased_data = FOREACH data GENERATE udf.uppercase(text) AS uppercase_text;

-- Store the result
STORE uppercased_data INTO 'hdfs:///exp4/output';
```

### \$pig -f udf example.pig





## \$hdfs dfs -cat /exp4/output/\*

```
(hadoop® kali)-[~/hadoop/bin]
_$ ./hdfs dfs -cat /exp4/output/*
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
2024-09-21 00:33:32,731 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform ...
1,JOHN
2,JANE
3,JOE
4,EMMA
```