EXP NO: 4

CREATE UDF IN PIG

\$start-all.sh

```
File Actions Edit View Help

(Nameophilities)

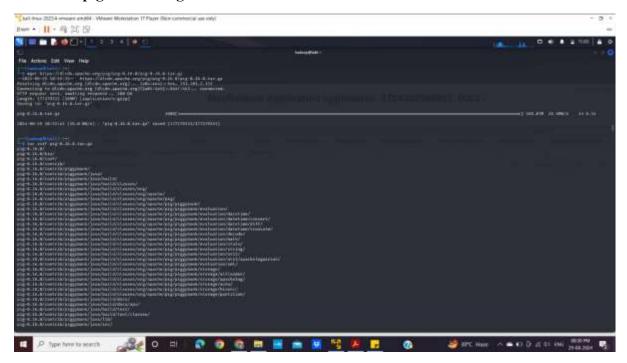
(
```

\$ jps

```
Cadenoth Auli3-[+]
[-] jas
Picked us _AVA_DFTIONS: -Dawt.useSystemAAFuntSettings-on -Dawing.nstext-froe
14-38 McGoManager
18-72 Jps
18-72 Jps
18-73 Jps
13-73 RetourceManager
13-97 BataNode
13-77 ManeWorde
```

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

\$ tar xvzf pig-0.16.0.tar.gz

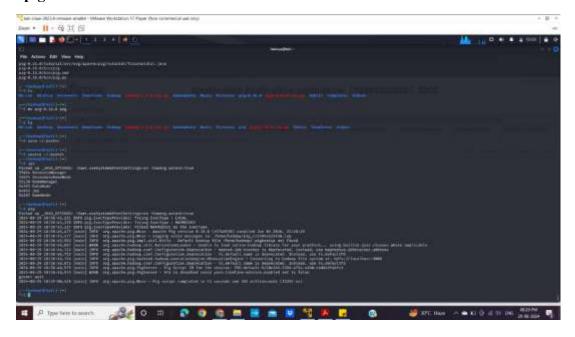


\$nano ~/.bashrc

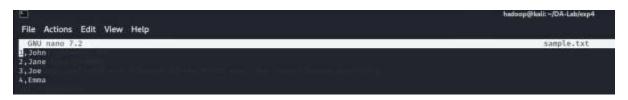
```
#PIG settings
export PIG_HOME=/home/hadoop/pig
export PATH=SPATH:SPIG_HOME/bin
export PIG_CLASSPATH=SPIG_HOME/conf:SHADOOP_HOME/etc/hadoop/
export PIG_CONF_DIR=SPIG_HOME/conf
#export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
export PIG_CLASSPATH=SPIG_CONF_DIR:SPATH
#PIG setting ends
```

\$mv pig-0.16.0 pig

\$pig



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



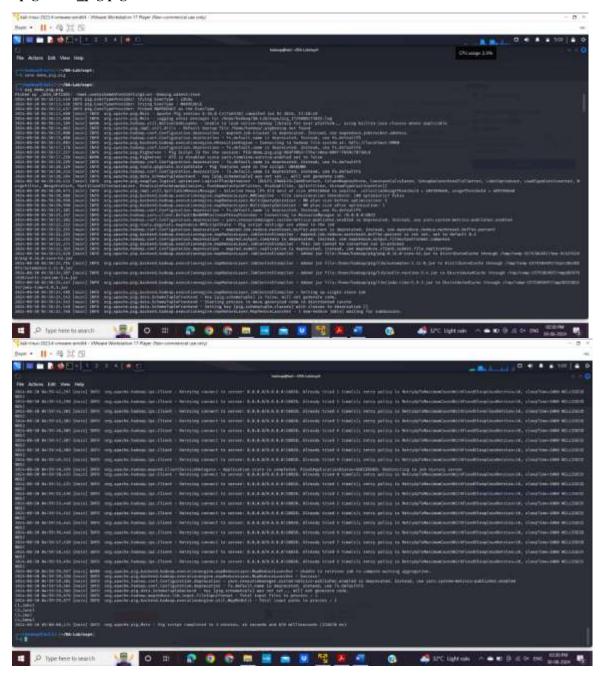
\$nano demo_pig.pig



\$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

```
(hadoop@kali)-[~/hadoop/bin]
3 ./hdfs dfs -ls /exp4

Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
2024-09-21 00:26:01,736 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform ...
Found 3 items

drwxr-xr-x - hadoop supergroup 0 2024-08-30 05:07 /exp4/output
-rw-r-r- 1 hadoop supergroup 27 2024-08-30 04:43 /exp4/sample.txt
-rw-r-r-r 1 hadoop supergroup 172 2024-08-30 05:02 /exp4/uppercase_udf.py
```

\$nano udf example.pig

```
File Actions Edit View Help

GNU manu 7:2

Register the Python UDF script

REGISTER 'hdfs:///exp4/uppercase_udf.py' USING Jython AS udf;

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

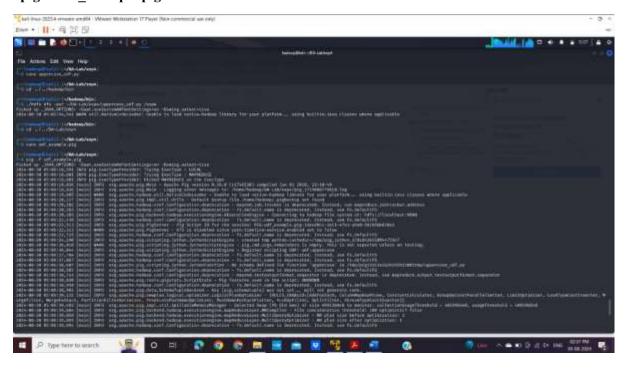
— Use the Python UDF

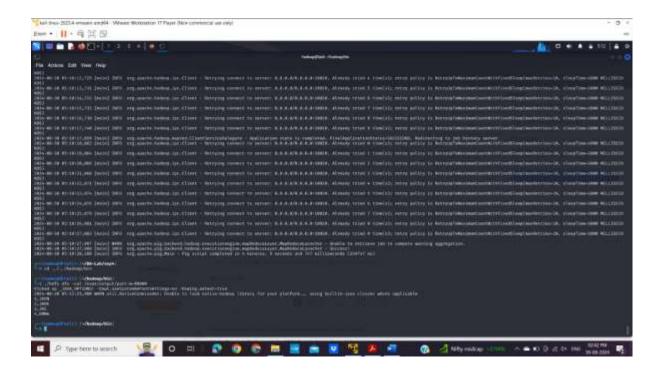
uppercased_data * FOREACH data GENERATE udf.uppercase(text) AS uppercase_text;

— 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
```