EXP NO: 4 **CREATE UDF IN PIG**

$start-all.sh

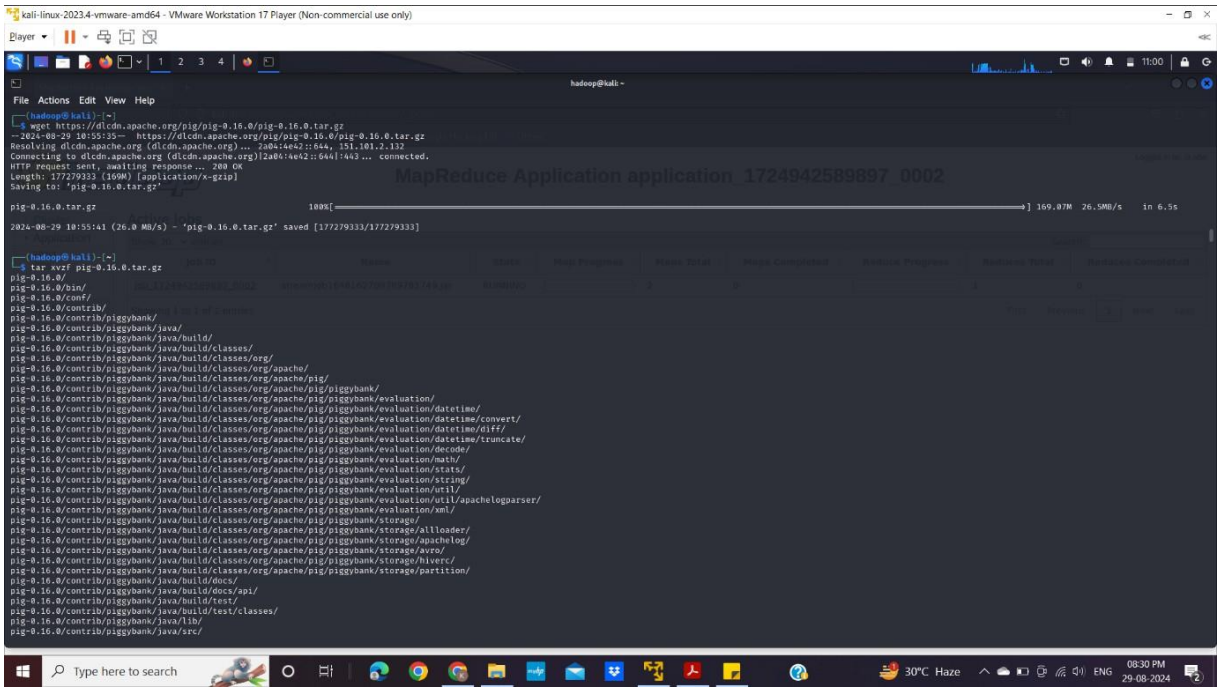
```
hadoop@kali: ~
File  Actions  Edit  View  Help

┌──(hadoop㉿kali)-[~]
└─$ start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hadoop in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL-C to abort.
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [kali]
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
2024-09-11 04:59:16,429 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Starting resourcemanager
Starting nodemanagers
```

$ 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

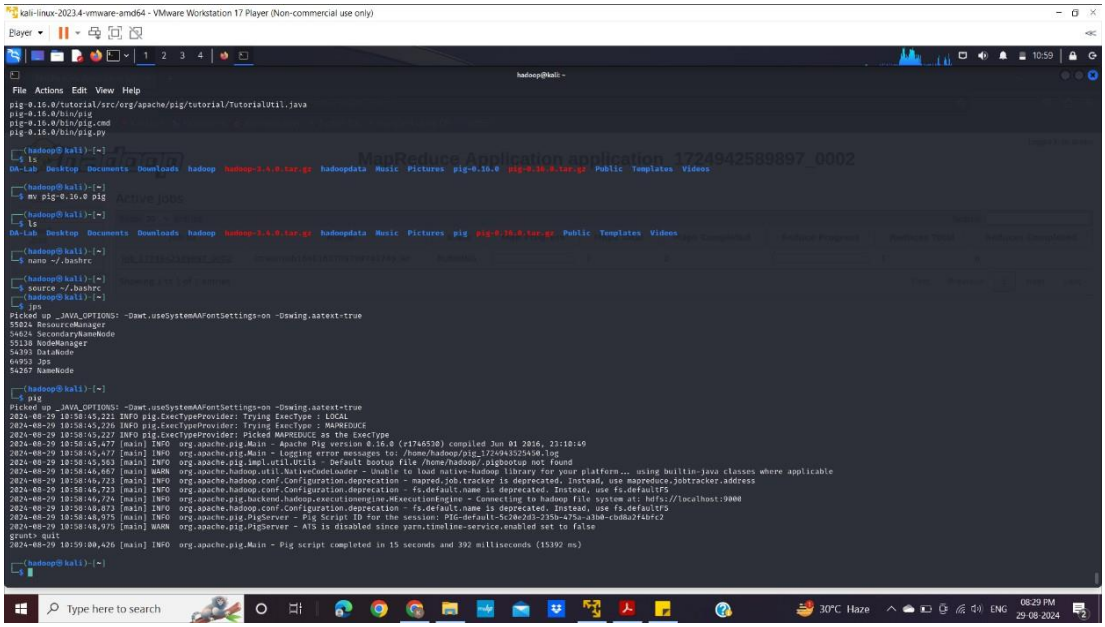


$nano ~/.bashrc

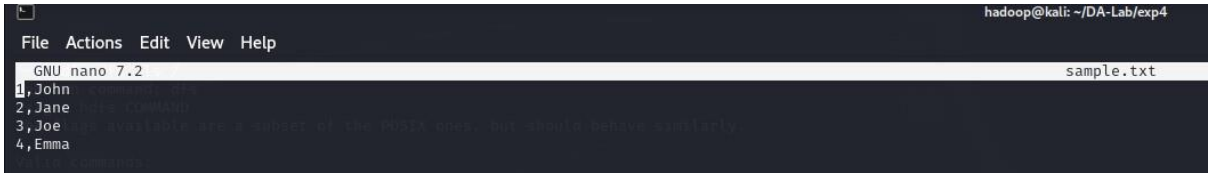
```
#PIG settings
export PIG_HOME=/home/hadoop/pig
export PATH=$PATH:$PIG_HOME/bin
export PIG_CLASSPATH=$PIG_HOME/conf:$HADOOP_HOME/etc/hadoop/
export PIG_CONF_DIR=$PIG_HOME/conf
#export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
export PIG_CLASSPATH=$PIG_CONF_DIR:$PATH
#PIG setting ends
```

$mv pig-0.16.0 pig

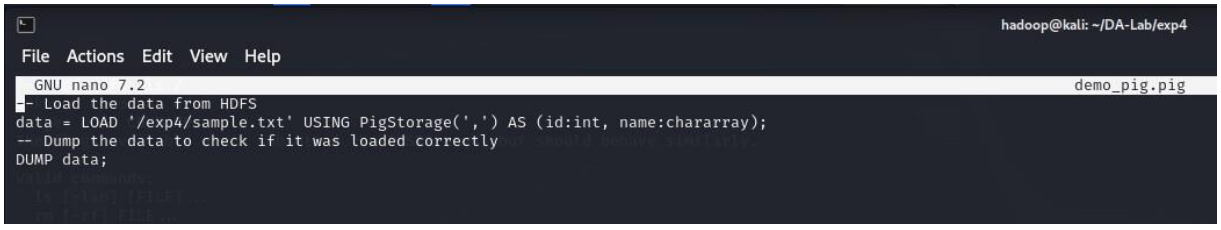
$pig



$cd DA-Lab
$mkdir exp4
$cd exp4
$nano sample.txt



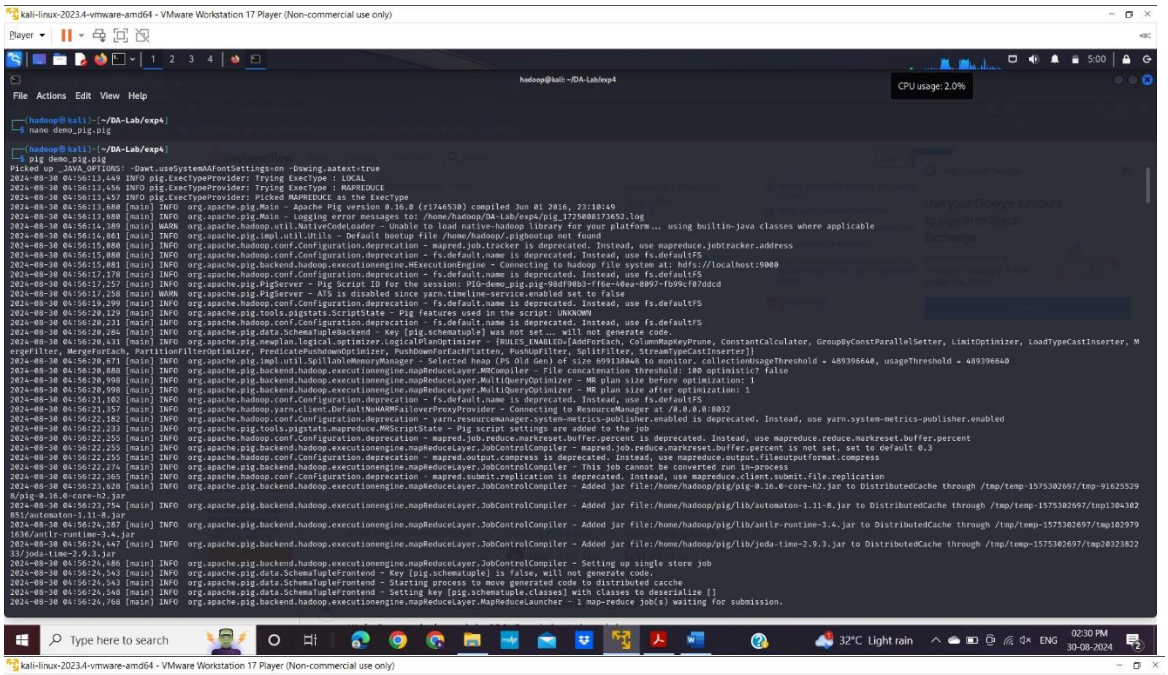
$nano demo_pig.pig

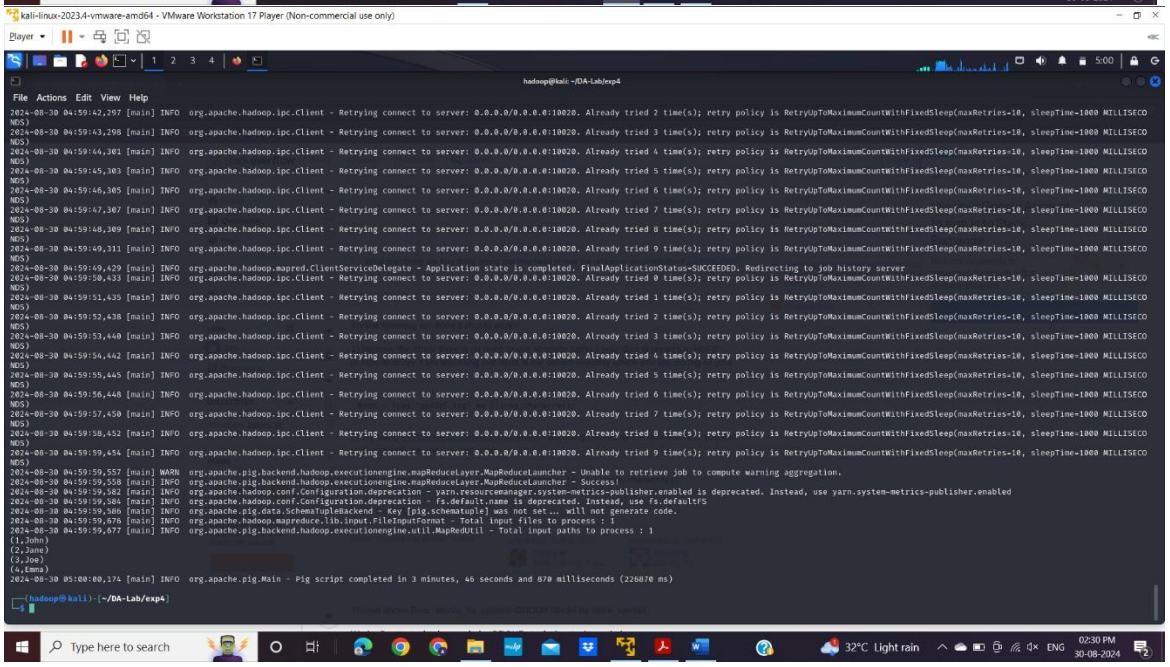


$hdfs dfs -mkdir /exp4

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

$pig demo_pig.pig





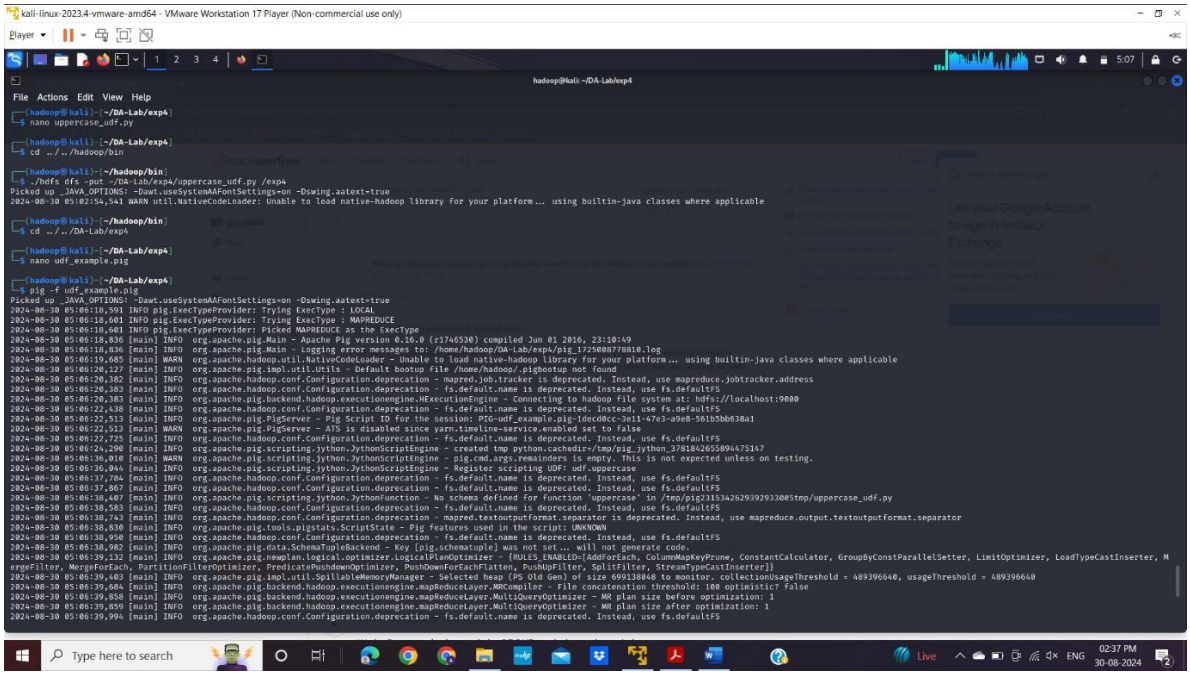
$nano uppercase_udf.py

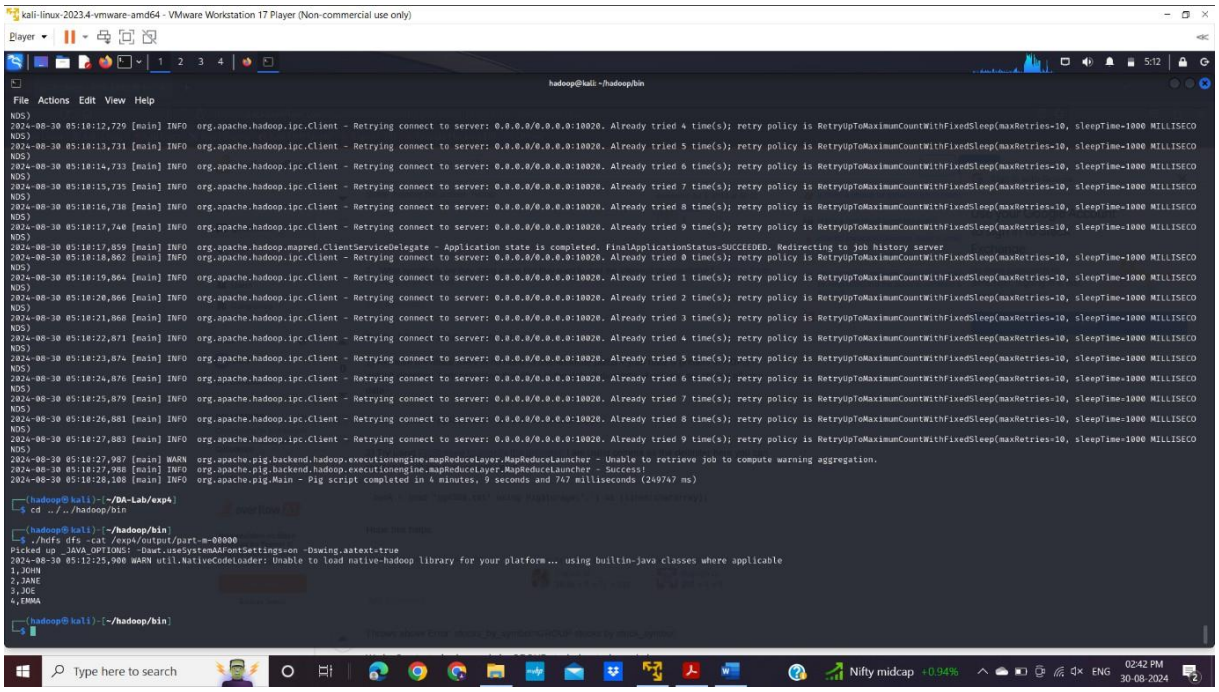
$hdfs dfs -copyFromLocal ~/DA-Lab/exp4/uppercase_udf.py /exp4

```
┌──(hadoop㉿kali)-[~/hadoop/bin]
└─$ ./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--   1 hadoop supergroup        172 2024-08-30 05:02 /exp4/uppercase_udf.py
```

$nano udf_example.pig

$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
```