#### EXP NO: 4

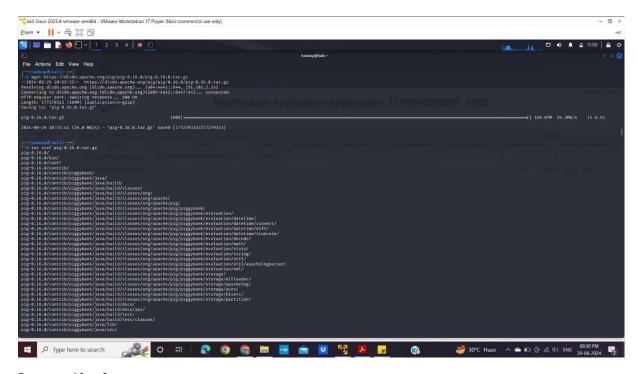
#### **CREATE UDF IN PIG**

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

# \$ jps

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

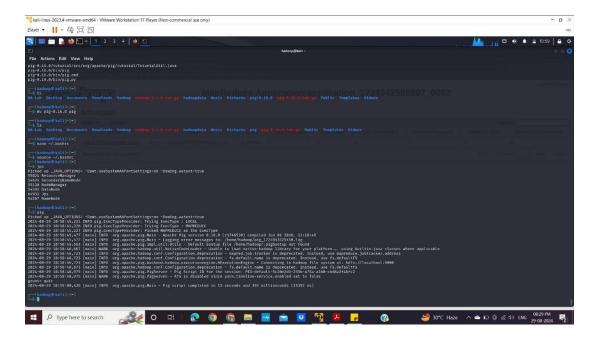
# \$ tar xvzf pig-0.16.0.tar.gz



\$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**

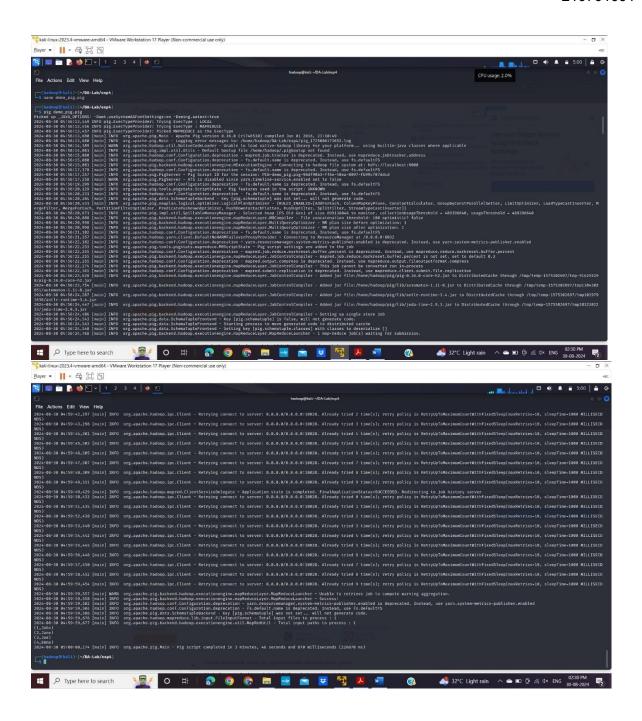


### \$cd DA-Lab \$mkdir exp4 \$cd exp4 \$nano sample.txt



# \$nano demo pig.pig





# **\$nano uppercase\_udf.py**

```
File Actions Edit View Help

GNU nano 7.2

def uppercase(text):
    return text.upper()
    if __name __ = "_main__":
        import sys
        for line in sys.stdin:
            line = line.strip()
            result = uppercase(line)
            print(result)
```

# \$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);

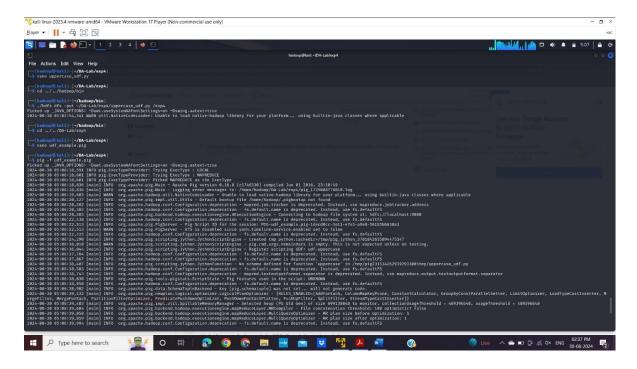
-- Use the Python UDF

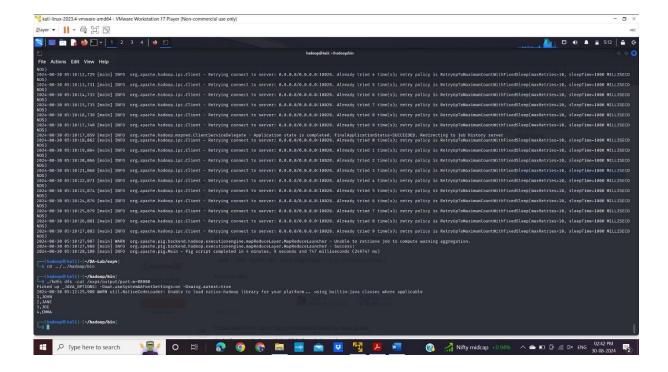
uppercased_data = FOREACH data GENERATE udf.uppercase(text) AS uppercase_text;

-- 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
```