

```
#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
```



**\$pig demo\_pig.pig**

## \$nano uppercase\_udf.py

```

File Actions Edit View Help
GNU nano 2.2.1
def uppercase(text):
    return text.upper()
if __name__ == "__main__":
    import sys
    for line in sys.stdin:
        line = line.strip()
        result = uppercase(line)
        print(result)

```

uppercase\_udf.py

```
(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
```

```

GNU nano 7.2 udf_example.pig
- 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
uppercase_data = FOREACH data GENERATE udf.uppercase(text) AS uppercase_text;
- Store the result
STORE uppercase_data INTO 'hdfs:///exp4/output';

```

[illegible]



```
(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
```