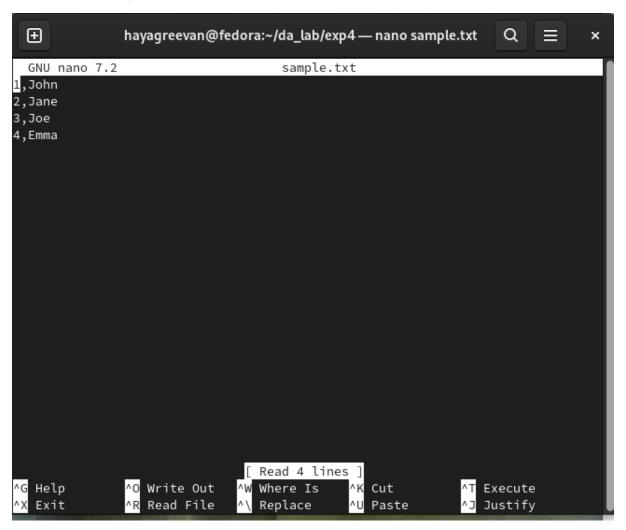
## **Exp. No: 4**

# User Defined Function (UDF) in PIG

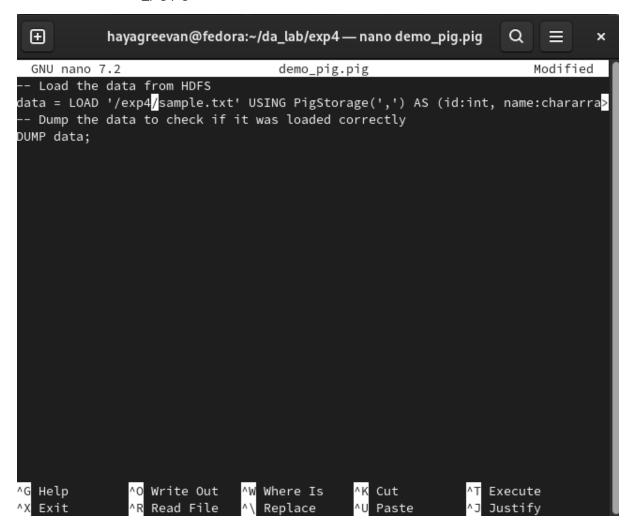
1. Create sample.txt



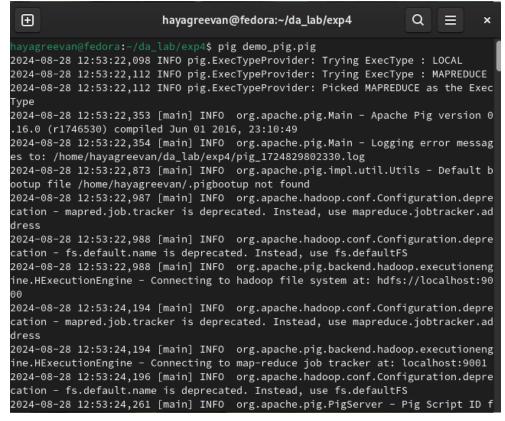
2. Upload sample.txt file to HDFS Storage.

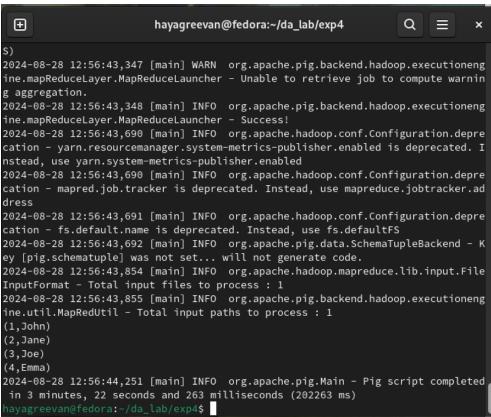
```
hayagreevan@fedora:~/da_lab/exp4$ hdfs dfs -mkdir /exp4/
hayagreevan@fedora:~/da_lab/exp4$ hdfs dfs -put sample.txt /exp4/
```

3. Create demo\_pig.pig file



## 4. Execute demo\_pig.pig





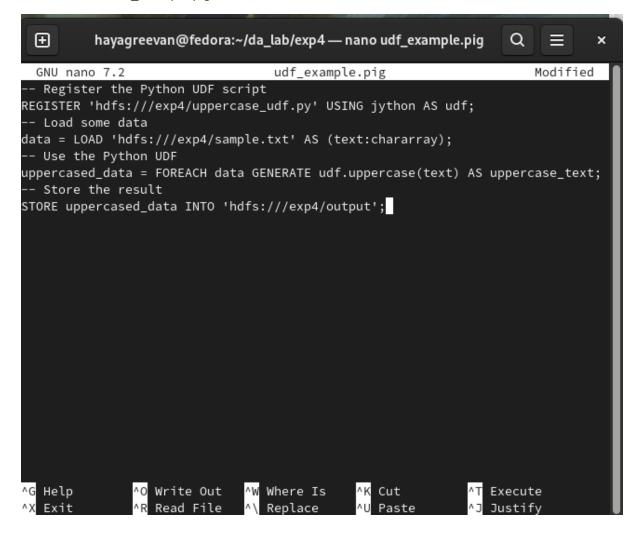
5. Create uppercase\_udf.py

```
Q
 ⊞
         hayagreevan@fedora:~/da_lab/exp4 — nano uppercase_udf.py
 GNU nano 7.2
                                 uppercase_udf.py
def uppercase(text):
        return text.upper()
if __name__ == "__main__":
        import sys
        for line in sys.stdin:
               line = line.strip()
                result = uppercase(line)
                print(result)
                               [ Read 10 lines ]
                              ^W Where Is
^G Help
               ^O Write Out
                                              ^K Cut
                                                             ^T Execute
^X Exit
                  Read File
                                 Replace
```

6. Upload uppercase\_udf.py file to HDFS Storage.

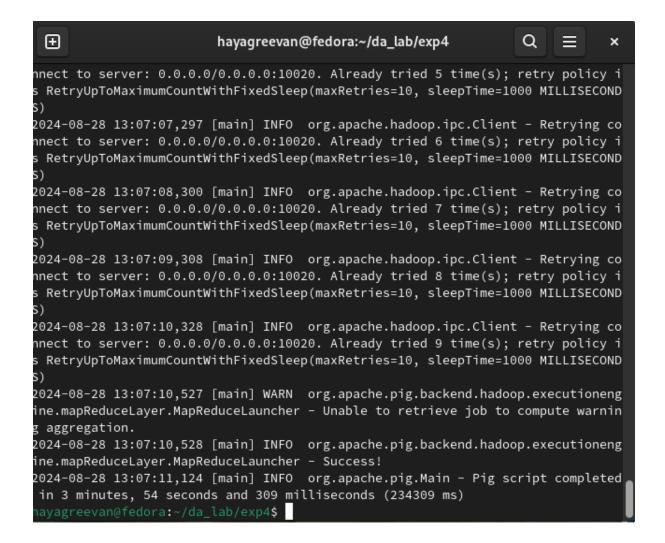
```
hayagreevan@fedora:~/da_lab/exp4$ hdfs dfs -put uppercase_udf.py /exp4/
hayagreevan@fedora:~/da_lab/exp4$
```

7. Create udf\_example.pig



### 8. Execute udf\_example.pig

```
hayagreevan@fedora:~/da_lab/exp4$ pig -f udf_example.pig
2024-08-28 13:03:16,716 INFO pig.ExecTypeProvider: Trying ExecType : LOCAL
2024-08-28 13:03:16,718 INFO pig.ExecTypeProvider: Trying ExecType : MAPREDUCE
2024-08-28 13:03:16,718 INFO pig.ExecTypeProvider: Picked MAPREDUCE as the Exec
2024-08-28 13:03:16,930 [main] INFO org.apache.pig.Main - Apache Pig version 0
.16.0 (r1746530) compiled Jun 01 2016, 23:10:49
2024-08-28 13:03:16,930 [main] INFO org.apache.pig.Main - Logging error messag
es to: /home/hayagreevan/da_lab/exp4/pig_1724830396914.log
2024-08-28 13:03:17,383 [main] INFO org.apache.pig.impl.util.Utils - Default b
ootup file /home/hayagreevan/.pigbootup not found
2024-08-28 13:03:17,507 [main] INFO org.apache.hadoop.conf.Configuration.depre
cation - mapred.job.tracker is deprecated. Instead, use mapreduce.jobtracker.ad
dress
2024-08-28 13:03:17,507 [main] INFO org.apache.hadoop.conf.Configuration.depre
cation - fs.default.name is deprecated. Instead, use fs.defaultFS
2024-08-28 13:03:17,507 [main] INFO org.apache.pig.backend.hadoop.executioneng
ine.HExecutionEngine - Connecting to hadoop file system at: hdfs://localhost:90
2024-08-28 13:03:19,755 [main] INFO org.apache.hadoop.conf.Configuration.depre
cation - mapred.job.tracker is deprecated. Instead, use mapreduce.jobtracker.ad
dress
2024-08-28 13:03:19,756 [main] INFO org.apache.pig.backend.hadoop.executioneng
ine.HExecutionEngine - Connecting to map-reduce job tracker at: localhost:9001
2024-08-28 13:03:19,759 [main] INFO org.apache.hadoop.conf.Configuration.depre
cation - fs.default.name is deprecated. Instead, use fs.defaultFS
2024-08-28 13:03:19,865 [main] INFO org.apache.pig.PigServer - Pig Script ID f
```



### Output:

```
hayagreevan@fedora:~/da_lab/exp4$ hdfs dfs -cat /exp4/output/*
1,JOHN
2,JANE
3,JOE
4,EMMA
```