Exp. No: 4

User Defined Function (UDF) in PIG

1. Create sample.txt

```
Activities Terminal

GNU nano 6.2

1, John
2, Jane
3, Joe
4, Emma
```

2. Create demo_pig.pig file

```
2004-09-14 1739-18 20 Min Policy Section Provider 1 1770 Rectifyer 1 MARGINGE 2004-09-14 1739-19 20 Min Policy Section Provider Picked Montpolicy Completed as the Exercise Completed Provider Picked Montpolicy Completed Provider Picked Provider Provider Picked Montpolicy Completed Provider Picked Provider Provider Picked Provider Provider Picked Provider Provider
```

3. Execute demo_pig.pig

4. Upload uppercase_udf.py file to HDFS Storage.

5. Create udf_example.pig

```
Activities Terminal

GNU nano 6.2

- Register the Python UDF script
REGISTER 'hdfs:///home/hadoop/udfs/uppercase_udf.py' USING jython AS udf;

- Load some data
data = LOAD 'hdfs:///home/hadoop/sample.txt' AS (text:chararray);

- Use the Python UDF to convert text to uppercase
uppercased_data = FOREACH data GENERATE udf.uppercase(text) AS uppercase_text;

- Store the result in HDFS
STORE uppercased_data INTO 'hdfs:///home/hadoop/pig_output_data';
```

Output:

```
-$ hdfs dfs -cat /home/hadoop/pig_output_data/part-m-00000
1,JOHN
2,JANE
3,JOE
4,EMMA
```