**Develop a program to calculate the maximum recorded temperature by year wise for the weather dataset in Pig Latin**

gedit temperatures.txt

2020,32

2021,40

2020,34

2021,26

2022,28

2023,30

2022,42

2023,40

**Now on terminal type “pig” to enter into pig script**

**Execute the following commands in pig**

-- Load the weather dataset

weather\_data = LOAD 'temperatures.txt' USING PigStorage(',') AS (year:chararray, temperature:int);

-- Group data by year

grouped\_data = GROUP weather\_data BY year;

-- Calculate the maximum temperature for each year

max\_temp\_by\_year = FOREACH grouped\_data GENERATE group AS year, MAX(weather\_data.temperature) AS max\_temperature;

-- Store the results

STORE max\_temp\_by\_year INTO 'tempresult';

After the execution come out of the pig grunt. Type “quit”

To view the output:

hdfs dfs -cat tempresult/part-r-00000