# Module 3: Hadoop MapReduce Framework

Assignment – Find the Hot and Cold Days



edureka!

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### Introduction

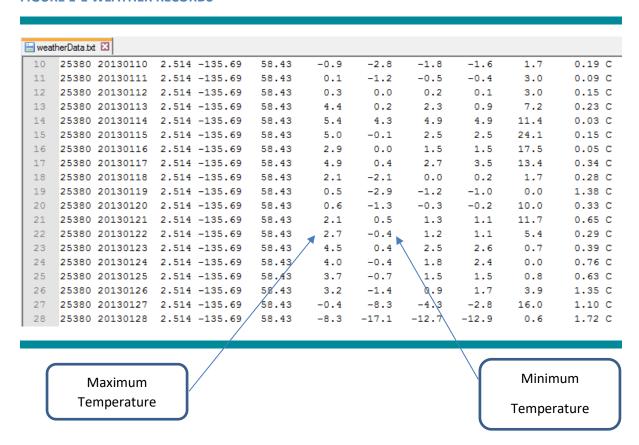
Apply your MapReduce programming knowledge and write a MapReduce program to process a dataset with temperature records. You need to find the Hot and Cold days in a year based on the maximum and minimum temperatures on those days.

The dataset for this problem is the **'WeatherData'** records file available in your LMS. This dataset has been taken from <u>National Climatic Data Center (NCDC)</u> public datasets. You can download more datasets from this FTP site and review the <u>README</u> file to understand the available datasets.

### Problem statement

Let's understand the problem through a subset of records in the dataset as shown in the following figure:

**FIGURE 1-1 WEATHER RECORDS** 



Your task is to find out the dates with maximum temperature greater than 40 (A Hot Day) and minimum temperature lower than 10 (A Cold Day).

#### Here is the sample output:

#### **FIGURE 1-2 SAMPLE OUTPUT**

04-02-2013	Cold Day
04-03-2013	Cold Day
04-04-2013	Cold Day
04-05-2013	Cold Day
04-06-2013	Hot Day
04-07-2013	Hot Day
04-08-2013	Hot Day
04-09-2013	Hot Day
05-01-2013	Cold Day
05-03-2013	Cold Day
05-04-2013	Cold Day

You can review the solution in your LMS.

