**ZipCar Coding Interview Solution Guide**

**Solution Summary –**

I had created a separate scala object for each of the problem statement mentioned in README file , so in there are total 7 files present in the package **com.zipcar.spark.coding.interview.datasets** , each corresponds to 1 problem statement. As requested in the problem statement , I had used spark Dataset API to create these spark jobs. Below is the list of files.

1. WeatherProblem1
2. WeatherProblem2
3. WeatherProblem3
4. WeatherProblem4
5. WeatherProblem5
6. WeatherProblem6
7. WeatherProblem7

**Test Cases -**

For each of the scala job there is an unit test present under package name **com.zipcar.spark.coding.interview.datasets.tests** in src/test/scala directory. Only for problem 1 , I didn’t create the test case since we were just printing the data and saving it to a file. There was no transformation involved in it.

**How to run -**To run any of these job , please use the below command

<SPARK\_HOME>/bin/spark-submit –class <fully\_qualified\_class\_name> <jar\_file\_name> <param1> <param2>

Attached zip file, contains the jar file in the target/scala-2.11/spark-interview\_2.11-1.0.0.jar. Few of the spark jobs take 2 params for input file location and output file location.

e.g. – To run the WeatherProblem7, below will be the command

<SPARK\_HOME>/bin/spark-submit –class com.zipcar.spark.coding.interview.datasets.WeatherProblem7 target/scala-2.11/spark-interview\_2.11-1.0.0.jar /home/Saurabh/zipcar/input/weather\_stations.json /home/Saurabh/zipcar/output/WeatherProblem7

**How to run Unit Tests –**

To run any of the unit test or all the test cases please use the below commands.

sbt testOnly <fully\_qualified\_test\_class\_name>

OR to run all the test cases.

sbt test