### MP1 readme

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#### To Run

• test\_mp1.bat located in run folder

#### MP1 can:

- read all contracts and transaction objects into an array or Collection of Records
- displays contract data using toString() method in a loop
- displays all contract and transaction data in a tabular format using accessor methods.
- display the comparisons of the transaction\_charge of any two Records
- display the comparisons of the transaction\_quantity of any two Records
- display all Records sorted by Price.

#### MP1 has been tested and runs on

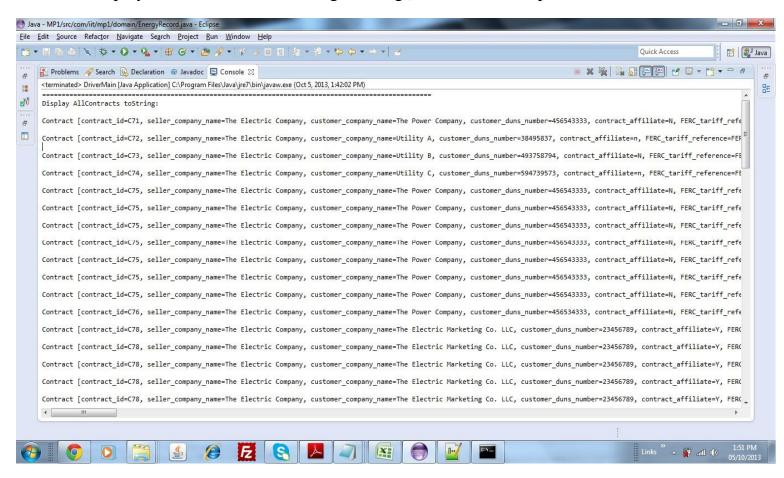
- ✓ Hardware
  - Intel(R) Core(TM) i5 CPU 2.53 GHz
- ✓ Software
  - Windows 7 32-bit
  - IDE: Eclipse
  - IDE Version: Kepler Release
  - Java JDK 7 version

## **Development Insights**

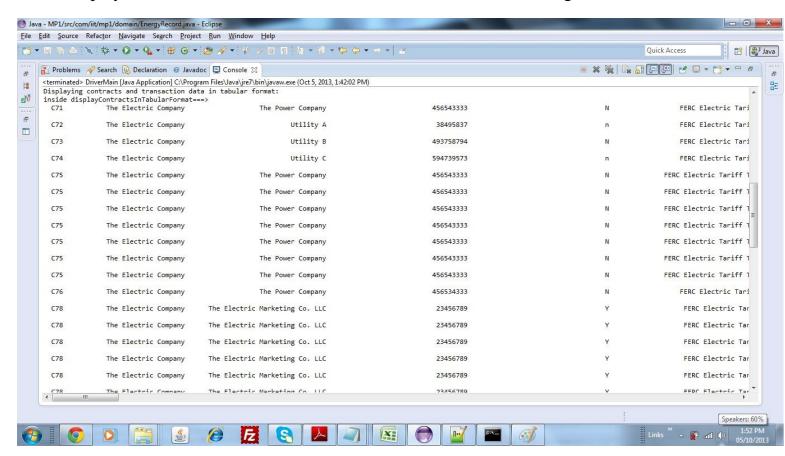
The data is provided in contract.txt and transaction.txt files. I converted the text files into csv formats which are further parsed and used for displaying the data. DataProvider.java is the file that parses the csv files and returns the respective lists. Transaction.java and Contract.java are the POJO files with fields which are unique to them. Common fields are provided are in EnergyRecord superclass. Transaction.java and Contract.java extends EnergyRecord.java. If no data is present for any field in the contract.txt or transaction.txt, then the default value is set to 0. For this purpose, there is a method 'check' in the transaction.java and contract.java file which sets the default value to 0 when data is not present. Transaction.java and Contract.java has toString methods to display data. Record interface has four method declarations which are implemented in transaction.java. These methods display the comparisions of transaction\_charge and transaction\_quantity of any two records. SortedPriceList.java sorts the transaction list on the basis of price column in ascending order. DataPrinter.java displays all contracts and transaction records in tabular format. This file uses print formatter for displaying data in tabular format. DriverMain.java is the main file where the execution starts.

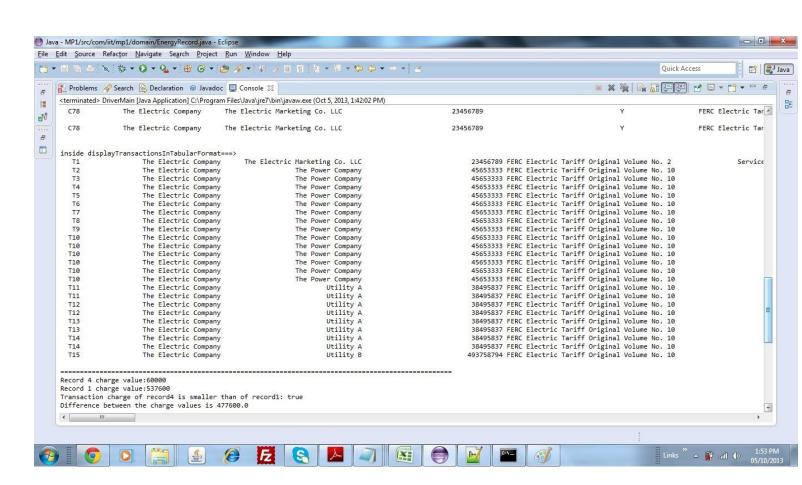
# Screen captures demonstrating all application capabilities

Display of all Contract data using toString() method in a loop:

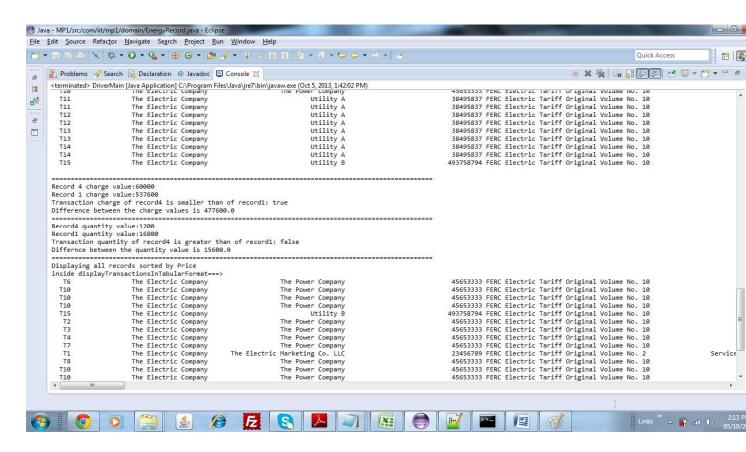


• Display of all contract and transaction data in a tabular format using accessor methods





- Display of the comparisons of the transaction\_charge of any two Records
- Display of the comparisons of the transaction\_quantity of any two Records



• Display of all Records sorted by Price.

