cs853 Prog assignment1 installation

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Required Tool:

1. Maven3.5.4: To automatic loading up required dependencies, download from:https://maven.apache.org/download.cgi
2. Git: Version control, download from https://git-scm.com/downloads
3. Intellij IDEA: download from https://www.jetbrains.com/idea/download/#section=mac

Installation:

1. Maven installation guide https://maven.apache.org/install.html
2. Git installation:https://git-scm.com/book/en/v2/Getting-Started-Installing-Git
3. Intellij installation: https://www.jetbrains.com/help/idea/install-and-set-up-product.html

Add trec car tool to the project:

1. Navigate to the directory of trec car tool java version which is ~/trec-car-tools/java1.7

2. Use maven command to package the trec car tool to jar file and maven will put it in maven local repository

```
mvn clean install
```

*If you got a message like mvn: command not found. Under Linux, you need to set JAVA_HOME and M2_HOME directory in .bash_profile, if there is no such file, just create one. run the following command

```
sudo vi ~/.bash_profile
```

Add the following to the file:

```
//replace the JAVA_HOME and M2_HOME based on your own
JAVA_HOME=/Library/Java/JavaVirtualMachines/jdk1.8.0_121.jdk/Contents/Home
export JAVA_HOME

M2_HOME=/Users/kangkang/Documents/maven/apache-maven-3.3.9
export M2_HOME

PATH=${PATH}:${JAVA_HOME}/bin:${M2_HOME}/bin
export PATH
```

save and exit the file and run the following command:

```
source ~/.bash_profile
```

Now you can go the ~/trec-car-tools/java.17 to run the command.

3. Clone the programming assignment by https://github.com/XinLiu92/cs853programmingAssignment1Group7.git to your local.

4. Open the cloned repository in Intellij, and reimport maven dependencies.

   Windows type in ctrl+shift+a to find action, type in "reimport", you will find "reimport all maven projects", then select it and press enter. Mac will type in cmd+shift +a instead.

   All of the necessary dependencies are included in pom.xml

5. Change the index directory under Indexer.java and searchEngine.java and data file directory under Main.java

6. Rebuild the project and run Main.java

7. By changing the boolean variable defualtScore under Main.java to false, you can swich the score function to the one we need to change in assignment spec.