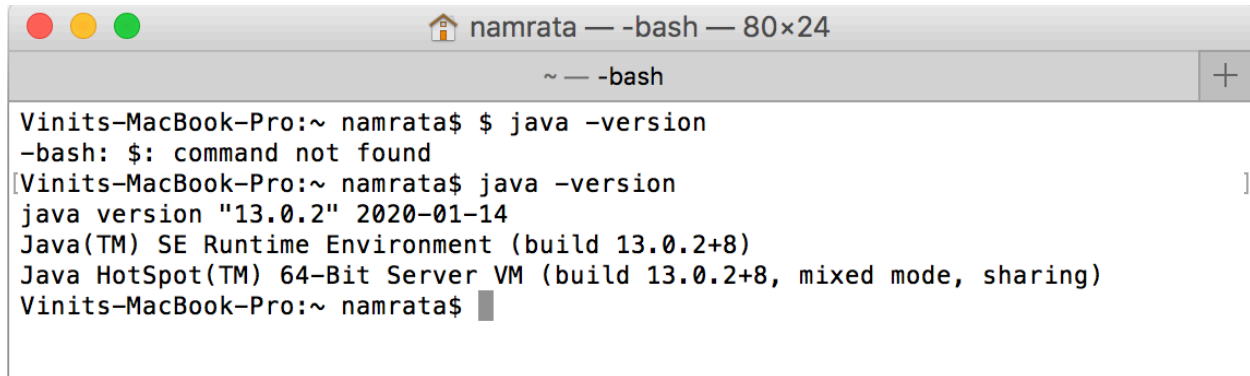Namrata Waybhase
CS522: Week4
Project: JUnit on JukeBox
NPU ID:19551

4. Jukebox
Step1: verify Java installation in your machine


```
Vinits-MacBook-Pro:~ namrata$ $ java -version
-bash: $: command not found
[Vinits-MacBook-Pro:~ namrata$ java -version
java version "13.0.2" 2020-01-14
Java(TM) SE Runtime Environment (build 13.0.2+8)
Java HotSpot(TM) 64-Bit Server VM (build 13.0.2+8, mixed mode, sharing)
Vinits-MacBook-Pro:~ namrata$
```
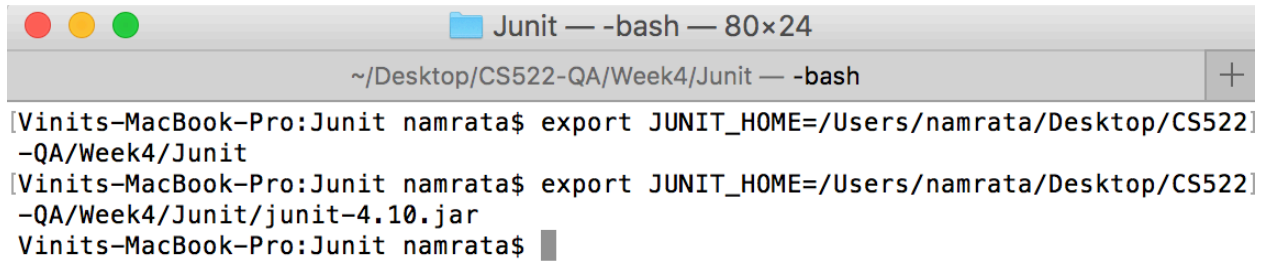
Step2: Set JAVA environment
I have Mac book it is not required.

Step 3: Download Junit archive


```
Vinits-MacBook-Pro:~ namrata$ $ java -version
-bash: $: command not found
Vinits-MacBook-Pro:~ namrata$ java -version
java version "13.0.2" 2020-01-14
Java(TM) SE Runtime Environment (build 13.0.2+8)
Java HotSpot(TM) 64-Bit Server VM (build 13.0.2+8, mixed mode, sharing)
Vinits-MacBook-Pro:~ namrata$ cd Desktop/CS522-QA/Week4/
Vinits-MacBook-Pro:Week4 namrata$ ls
CS522_Week4_Quiz_Junit_Namrata_Waybhase_19551.pdf
Junit
Vinits-MacBook-Pro:Week4 namrata$ cd Junit/
Vinits-MacBook-Pro:Junit namrata$ ls
junit-4.10.jar
Vinits-MacBook-Pro:Junit namrata$
```

Step 4: Set JUnit environment

```
●●●                     📁 Junit — -bash — 80×24
              ~/Desktop/CS522-QA/Week4/Junit — -bash                    +
[Vinits-MacBook-Pro:Junit namrata$ export JUNIT_HOME=/Users/namrata/Desktop/CS522]
 -QA/Week4/Junit
[Vinits-MacBook-Pro:Junit namrata$ export JUNIT_HOME=/Users/namrata/Desktop/CS522]
 -QA/Week4/Junit/junit-4.10.jar
 Vinits-MacBook-Pro:Junit namrata$ ▊
```

Step 5: Set CLASSPATH variable

Step 6: Test JUnit Setup

Step 7: Verify the Result

JukeBox
Step 1: Make Sure you have the following files in the Curent Working Directory

```
                Cricket.mp3
            Database.java
Vinits-MacBook-Pro:Junit namrata$ ls
Cricket.mp3      Jukebox.java    Kannala.mp3       TestJunit.java  jl1.0.jar
Database.java   Jukebox.sh       Song.java         TestRunner.java junit-4.10.jar
Vinits-MacBook-Pro:Junit namrata$ chmod +x Jukebox.sh
Vinits-MacBook-Pro:Junit namrata$ ls -l Jukebox.sh
-rwxr-xr-x@ 1 namrata  staff  274 Oct  5 18:19 Jukebox.sh
Vinits-MacBook-Pro:Junit namrata$ ▮
```
            TestJunit.java
            TestRunner.java

Step 2: Give execute Permission to "Jukebox.sh"

Step 3: Execute the file you want to run using the following command.

```
Vinits-MacBook-Pro:Junit namrata$ ./Jukebox.sh Database.java
Starting compilation...
Compilation Complete.

Execution
=========
Validity of CC : false
Song List:
================
0:      Name: Kadhal Cricket     Artist:Kharesma Ravichandran    Album:Thani Oruvan     Format:Mp3     Duration:214
1:      Name: Kannala Kannala    Artist:Kaushik Krish    Album:Thani Oruvan     Format:Mp3     Duration:215
2:      Name: Kadhal Cricket     Artist:Kharesma Ravichandran    Album:Thani Oruvan     Format:Mp3     Duration:214

Deleting Song @ index 2
Song List:
================
0:      Name: Kadhal Cricket     Artist:Kharesma Ravichandran    Album:Thani Oruvan     Format:Mp3     Duration:214
1:      Name: Kannala Kannala    Artist:Kaushik Krish    Album:Thani Oruvan     Format:Mp3     Duration:215
Playing the SongList
Currently Playing :Kadhal Cricket
▮
```

Step 4: Run your own Junit code

```
[Vinits-MacBook-Pro:Junit namrata$ ls
Cricket.mp3              JBTestSuiteRunner.java  Jukebox.java          SongTest.class        jl1.0.jar
Database.class          JukeBoxTest.class       Jukebox.sh            SongTest.java         jukebox_all.sh
Database.java           JukeBoxTest.java        Kannala.mp3           TestJunit.class       junit-4.10.jar
DatabaseTest.class      JukeBoxTestSuite.class  Song.class            TestJunit.java
DatabaseTest.java       JukeBoxTestSuite.java   Song.java             TestRunner.class
JBTestSuiteRunner.class Jukebox.class           Song.sh               TestRunner.java
[Vinits-MacBook-Pro:Junit namrata$ java JBTestSuiteRunner
 true
[Vinits-MacBook-Pro:Junit namrata$ javac  *.java
Note: Some input files use unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.
[Vinits-MacBook-Pro:Junit namrata$ java JBTestSuiteRunner
Checking if credit card is valid
 true
[Vinits-MacBook-Pro:Junit namrata$ javac  *.java
Note: Some input files use unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.
[Vinits-MacBook-Pro:Junit namrata$ java JBTestSuiteRunner
Successful: true ran 4 tests
Vinits-MacBook-Pro:Junit namrata$ java JBTestSuiteRunner
```