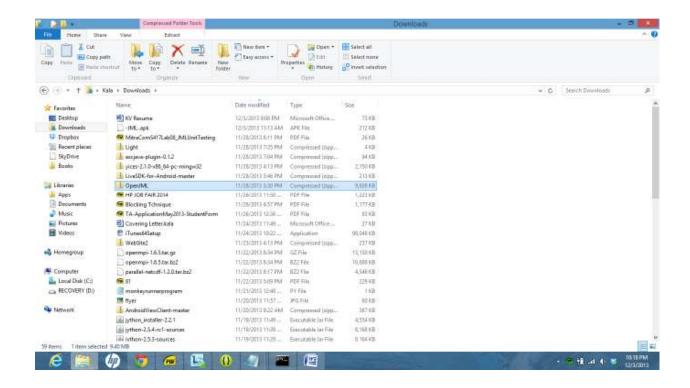
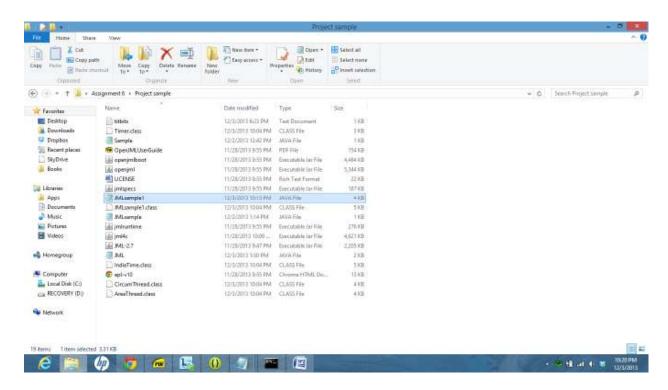
Steps to run JML for Multi-threaded Java application

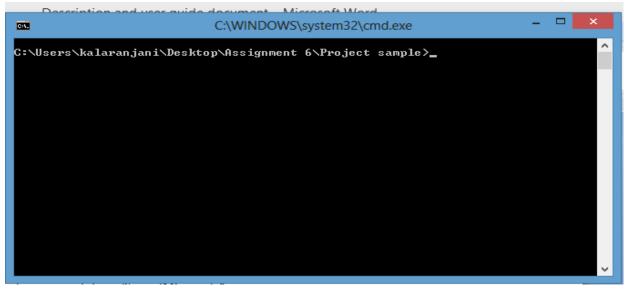
Step 1 : Download the OpenJML.zip from http://openjml.org/ and extract them in the local path.



Step 2: Write a Java code of your application and place them in the same folder where the OpenJML is extracted.



Step 3 : Open the command prompt and traverse to the path where the OpenJML and your project file is placed.

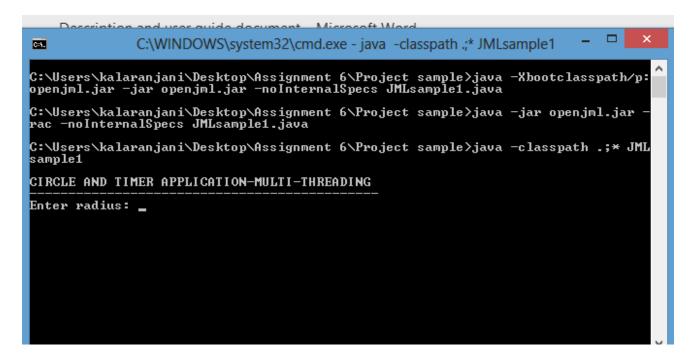


Step 4: Execute the below commands for the JML test results.

java -Xbootclasspath/p:openjml.jar -jar openjml.jar -noInternalSpecs <<JMLsample1.java>>

java -jar openjml.jar -rac -noInternalSpecs <<JMLsample1.java>>

java -classpath .;* << JMLsample1>>



Step 5 : Use various test inputs to verify the JML test scripts and thereby to test the validity of the program.

```
C:\Users\kalaranjani\Desktop\Assignment 6\Project sample>java -jar openjml.jar -ac -noInternalSpecs JMLsample1.java

C:\Users\kalaranjani\Desktop\Assignment 6\Project sample>java -classpath .;* JML sample1

CIRCLE AND TIMER APPLICATION-MULTI-THREADING

Enter radius: 12

Enter pi: 3.14

JMLsample1.java:58: JML invariant is false
Circumference:75.36

US time:22:35:09

India Time: 9:5:09

JMLsample1.java:120: JML postcondition is false

C:\Users\kalaranjani\Desktop\Assignment 6\Project sample>_
```

