1. Install sbt

http://www.scala-sbt.org/download.html
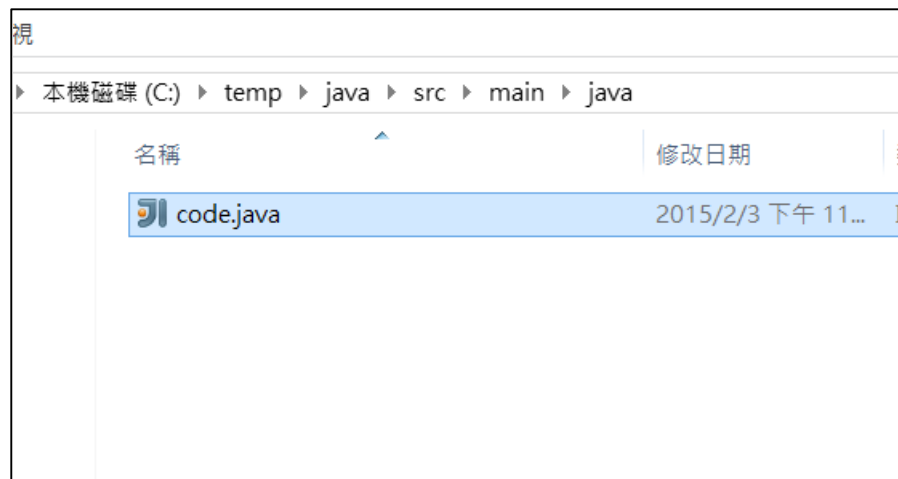
2. Unpack Java customized template

3. Put your code under src/main/java

4. Compile your code with 'sbt assembly'

```
命令提示字元

C:\temp\java>dir
 磁碟區 C 中的磁碟沒有標籤。
 磁碟區序號:  E2A5-3708

 C:\temp\java 的目錄

2015/03/06  下午 07:46    <DIR>          .
2015/03/06  下午 07:46    <DIR>          ..
2015/02/04  下午 12:47               707 build.sbt
2015/02/25  下午 04:07               683 build.sh.gpg
2015/02/04  下午 12:47                 4 jvm.options
2015/03/06  下午 07:49    <DIR>          project
2015/02/24  上午 09:57               558 run.sh.gpg
2015/03/06  下午 07:46    <DIR>          src
               4 個檔案              1,952 位元組
               4 個目錄  100,738,912,256 位元組可用

C:\temp\java>sbt assembly
Java HotSpot(TM) 64-Bit Server VM warning: ignoring option MaxPermSize=256m; support was removed in 8.0
[info] Loading project definition from C:\temp\java\project
[info] Set current project to homework (in build file:/C:/temp/java/)
[info] Updating {file:/C:/temp/java/}java...
[info] Resolving org.msgpack#msgpack-core;0.7.0-p5 ...
  [info] Resolving org.scala-lang#scala-compiler;2.10.4 ...
  [info] Resolving org.scala-lang#scala-library;2.10.4 ...
  [info] Resolving org.scala-lang#scala-reflect;2.10.4 ...
  [info] Resolving org.scala-lang#jline;2.10.4 ...
  [info] Resolving org.fusesource.jansi#jansi;1.4 ...
[info] downloading http://repo1.maven.org/maven2/org/msgpack/msgpack-core/0.7.0-p5/msgpack-core-0.7.0-p5.jar
[info]  [SUCCESSFUL ] org.msgpack#msgpack-core;0.7.0-p5!msgpack-core.jar (1841ms)
[info] Done updating.
[info] Compiling 1 Java source to C:\temp\java\target\classes...
[info] Including: msgpack-core-0.7.0-p5.jar
[info] Checking every *.class/*.jar file's SHA-1.
[info] Merging files...
[warn] Merging 'META-INF\MANIFEST.MF' with strategy 'discard'
[warn] Strategy 'discard' was applied to a file
[info] SHA-1: 4f3e9c3441945597e2c68c34942139463aedc01f
[info] Packaging C:\temp\java\target\homework-assembly-1.0-SNAPSHOT.jar ...
[info] Done packaging.
[success] Total time: 9 s, completed 2015/3/6 下午 07:52:22

C:\temp\java>
```

5. Put input.txt in place and run the jar file

```
C:\temp\java>dir
 磁碟區 C 中的磁碟沒有標籤。
 磁碟區序號:  E2A5-3708

 C:\temp\java 的目錄

2015/03/06  下午 07:58    <DIR>          .
2015/03/06  下午 07:58    <DIR>          ..
2015/02/04  下午 12:47               707 build.sbt
2015/02/25  下午 04:07               683 build.sh.gpg
2015/03/06  下午 07:57               154 input.txt
2015/02/04  下午 12:47                 4 jvm.options
2015/03/06  下午 07:49    <DIR>          project
2015/02/24  上午 09:57               558 run.sh.gpg
2015/03/06  下午 07:46    <DIR>          src
2015/03/06  下午 07:58    <DIR>          target
               5 個檔案          2,106 位元組
               5 個目錄  100,734,738,432 位元組可用

C:\temp\java>dir target
 磁碟區 C 中的磁碟沒有標籤。
 磁碟區序號:  E2A5-3708

 C:\temp\java\target 的目錄

2015/03/06  下午 07:58    <DIR>          .
2015/03/06  下午 07:58    <DIR>          ..
2015/03/06  下午 07:58    <DIR>          classes
2015/03/06  下午 07:58           122,449 homework-assembly-1.0-SNAPSHOT.jar
2015/03/06  下午 07:52    <DIR>          resolution-cache
2015/03/06  下午 07:52    <DIR>          streams
               1 個檔案         122,449 位元組
               5 個目錄  100,734,750,720 位元組可用

C:\temp\java>java -jar target\homework-assembly-1.0-SNAPSHOT.jar
There are 3 cases
514128510 865167606 1198332053 1363837601 1394306177 1618630569 1687711845 2027285140 2029200654 2128939035
124715255 552164823 560543539 672435305 902046246 957440464 1694033735 1717114111 1937273533 2100758006
410990576 538528397 546776819 871298530 1092246995 1151244756 1158364538 1244235444 1416919373 2104581615

C:\temp\java>
```
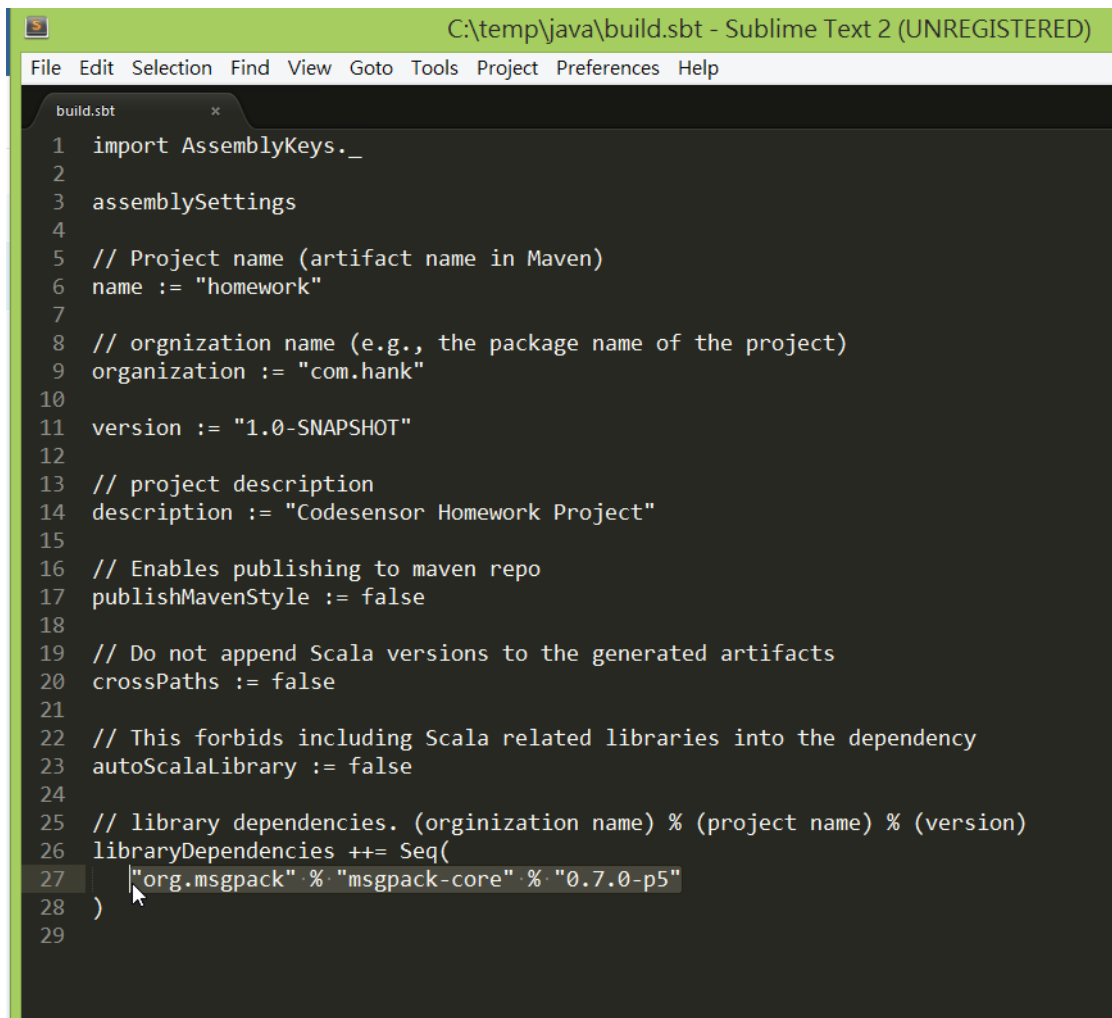
Under the hood, this is how to add msgpack to a sbt project

C:\temp\java\build.sbt - Sublime Text 2 (UNREGISTERED)

File   Edit   Selection   Find   View   Goto   Tools   Project   Preferences   Help

build.sbt

```
1   import AssemblyKeys._
2
3   assemblySettings
4
5   // Project name (artifact name in Maven)
6   name := "homework"
7
8   // orgnization name (e.g., the package name of the project)
9   organization := "com.hank"
10
11  version := "1.0-SNAPSHOT"
12
13  // project description
14  description := "Codesensor Homework Project"
15
16  // Enables publishing to maven repo
17  publishMavenStyle := false
18
19  // Do not append Scala versions to the generated artifacts
20  crossPaths := false
21
22  // This forbids including Scala related libraries into the dependency
23  autoScalaLibrary := false
24
25  // library dependencies. (orginization name) % (project name) % (version)
26  libraryDependencies ++= Seq(
27      "org.msgpack" % "msgpack-core" % "0.7.0-p5"
28  )
29
```