

README

This is a simple address book application. This application is forked from <https://github.com/se-edu/addressbook-level4.git> to my HW repo.

It performs add, delete, update and select operations on contacts in address book through a user interface.

I have created an associated GRADLE and SBT builds along with parsing logger information for this application.

This document has the following contents

- 1) GRADLE Build
 - 1.1) Build, run application and Generate Parsing Log information using Gradle build from INTELLIJ
- 2) SBT Build
 - 2.1) Build, run application and Generate Parsing Log using SBT Build from INTELLIJ
- 3) AST Parsing program

Pre-requisites:

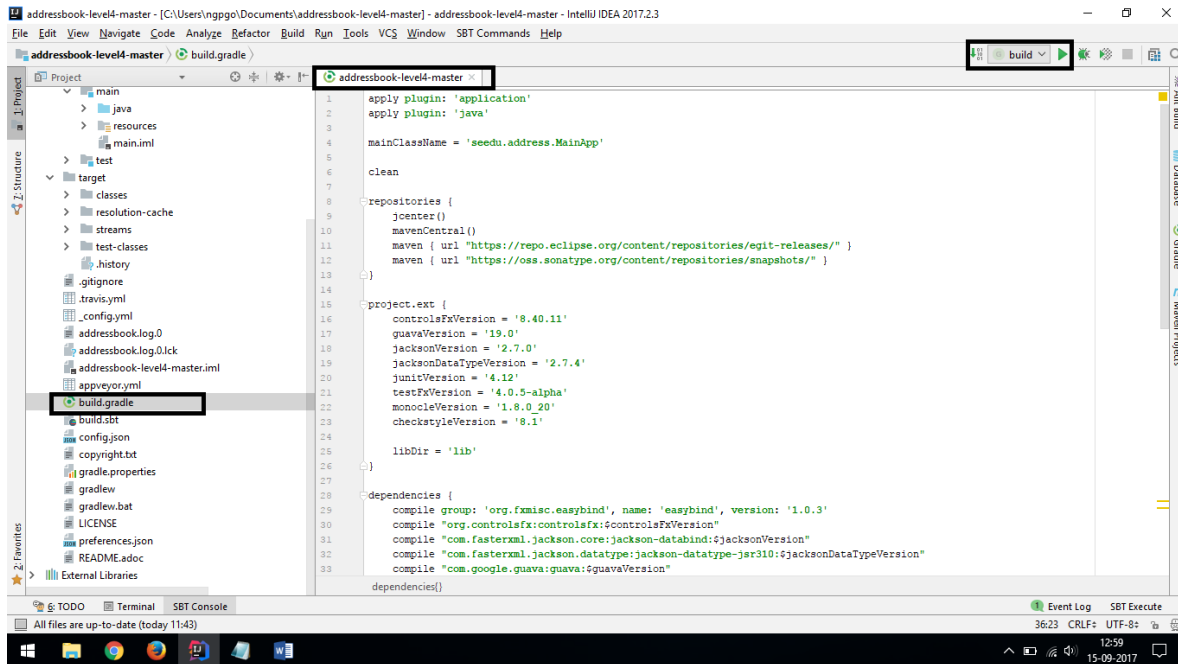
JDK version 1.8

Import Gradle changes, once the project has been opened/imported.

1) GRADLE

1.1) Build, run application and Generate Parsing Log information using **Gradle** build from **INTELLIJ**.

Once the project has been downloaded and imported as a project to INTELLIJ, kindly follow the below steps to BUILD and RUN the GRADLE file.



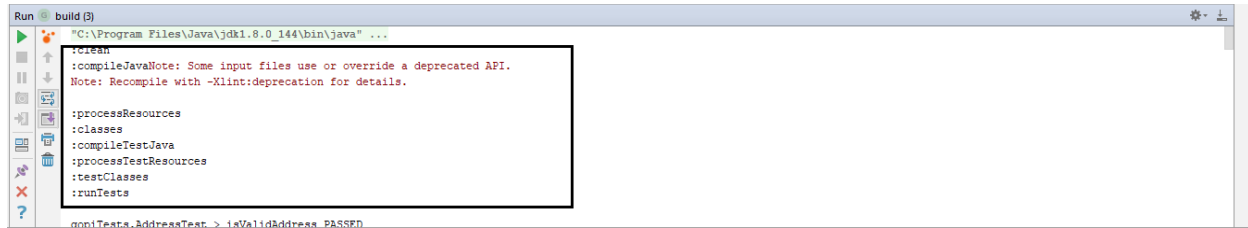
Choose the file **build.gradle**, where in a new window pops up. Once the window is opened click on the run radio button on the top right corner.

On the push of the run radio button a 'run window' pops up below the screen and the following tasks will be carried out (Screen shots attached below).

If the above option is not found, right click on the build.gradle file and choose run build option

- 1) Compile
- 2) JUNIT tests and the results will be displayed as passed or failed
- 3) The main app (UI) will be invoked (The app icon will be blinking on the taskbar) **(Close the application to complete the parser logging)**
- 4) The parser logging information will be printed on the run console as well as a Logging.txt file will be generated in the main directory.

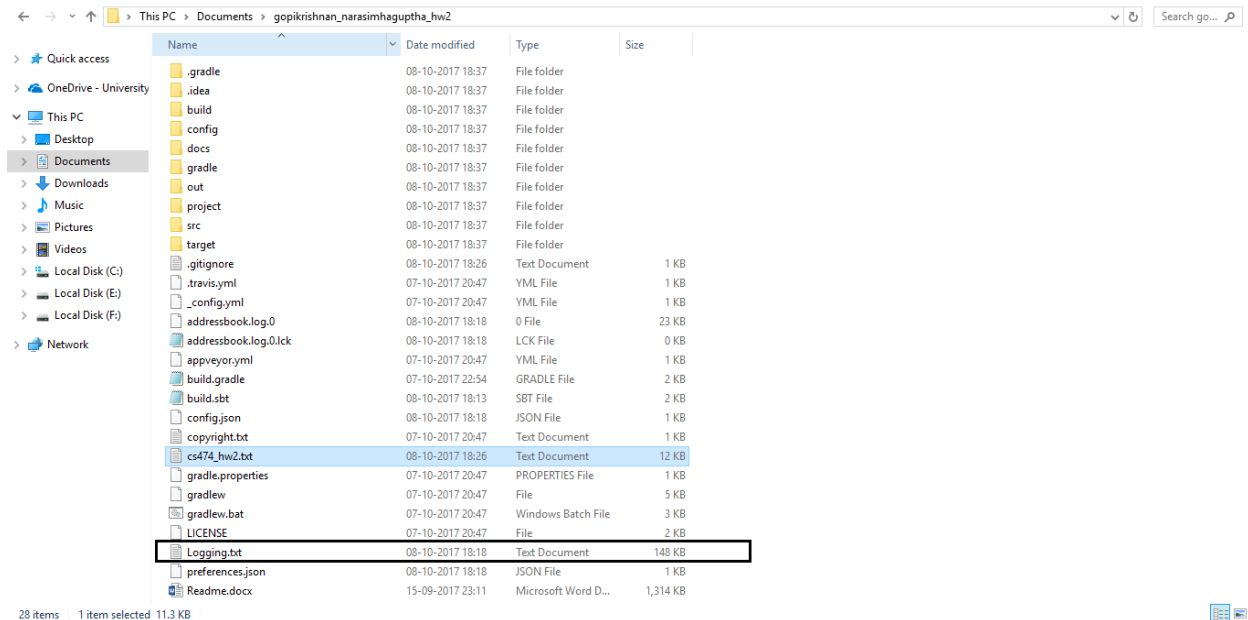
The Gradle build is functioned to do all the above-mentioned tasks when invoked from INTELLIJ.

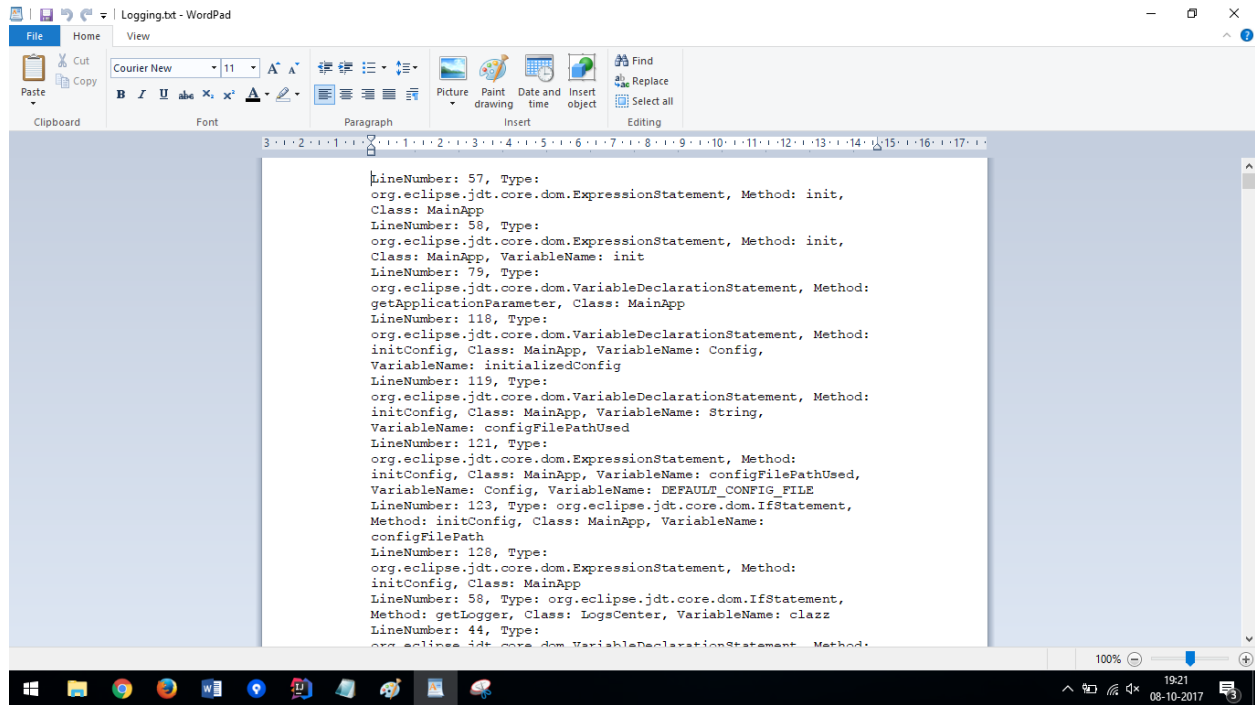


The main app will be invoked, to get the complete parser logging, close the main app

```
LineNumber: 48, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: getLogger, Class: LogsCenter
LineNumber: 51, Type: org.eclipse.jdt.core.dom.IfStatement, Method: addFileHandler, Class: LogsCenter, VariableName: fileHandler
LineNumber: 54, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: addFileHandler, Class: LogsCenter
LineNumber: 49, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: getLogger, Class: LogsCenter
LineNumber: 59, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: readJsonFile, Class: JsonUtil
LineNumber: 60, Type: org.eclipse.jdt.core.dom.VariableDeclarationStatement, Method: readJsonFile, Class: JsonUtil, VariableName: File, VariableName: file, VariableName: File,
VariableName: filePath
LineNumber: 62, Type: org.eclipse.jdt.core.dom.IfStatement, Method: readJsonFile, Class: JsonUtil
LineNumber: 67, Type: org.eclipse.jdt.core.dom.VariableDeclarationStatement, Method: readJsonFile, Class: JsonUtil, VariableName: T, VariableName: jsonFile
LineNumber: 70, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: readJsonFile, Class: JsonUtil
LineNumber: 131, Type: org.eclipse.jdt.core.dom.VariableDeclarationStatement, Method: initConfig, Class: MainApp
LineNumber: 132, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: initConfig, Class: MainApp
LineNumber: 87, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: saveJsonFile, Class: JsonUtil
```

The logging information will be printed on the console as well as a logging.txt file will be generated, each time the code is executed.

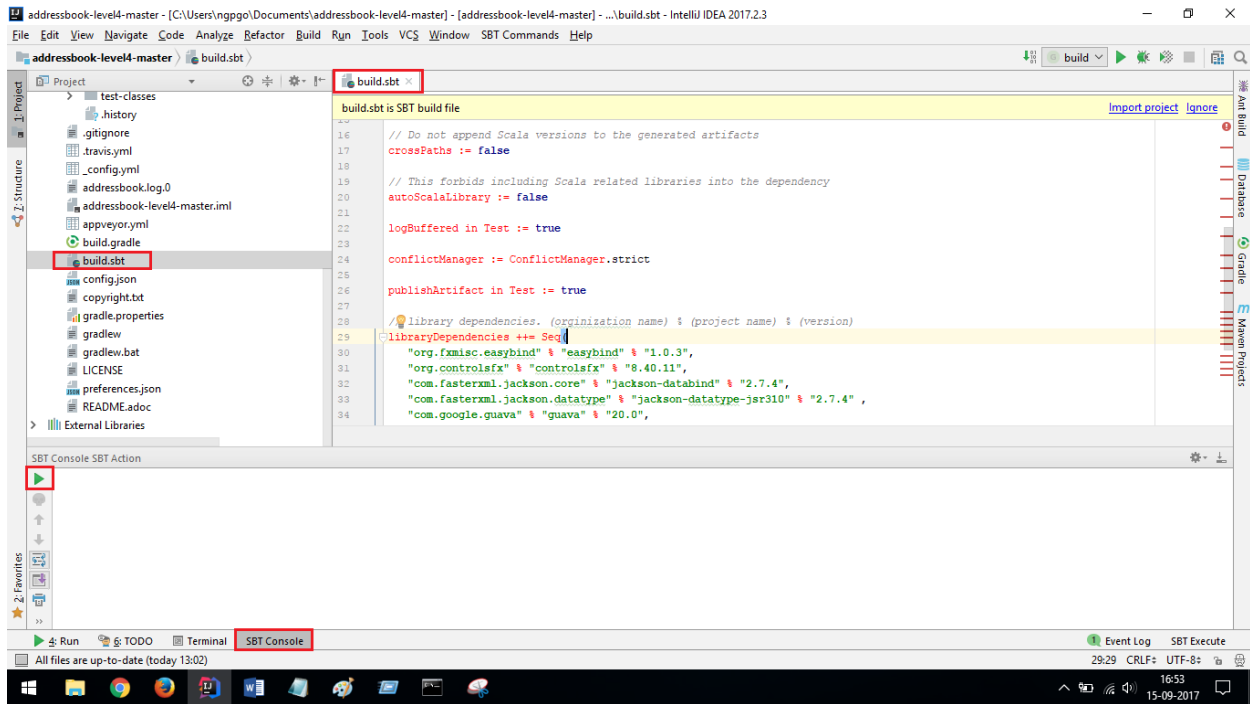




2) SBT

2.1) Build, run and Generate Parsing Log information using SBT build from INTELLIJ.

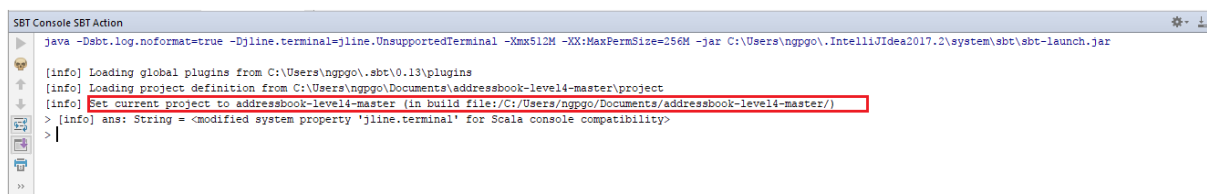
Once the project has been downloaded and imported as a project to INTELLIJ, kindly follow the below steps to BUILD and RUN the SBT file.



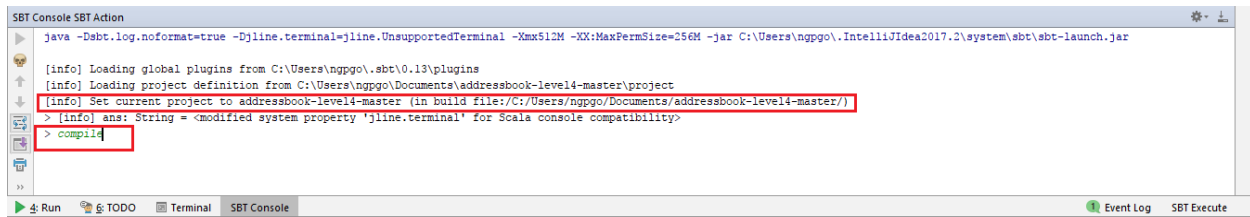
Choose the file **build.sbt**, where in a new window pops up. Once the window is opened click on the SBT console which can be found at the bottom of screen.

If SBT console is not found, go to view tab and under the view choose tool windows and under under tool windows choose SBT console.

Click on 'play/run' radio button to execute the SBT build



Once the current project path is set, execute the command compile



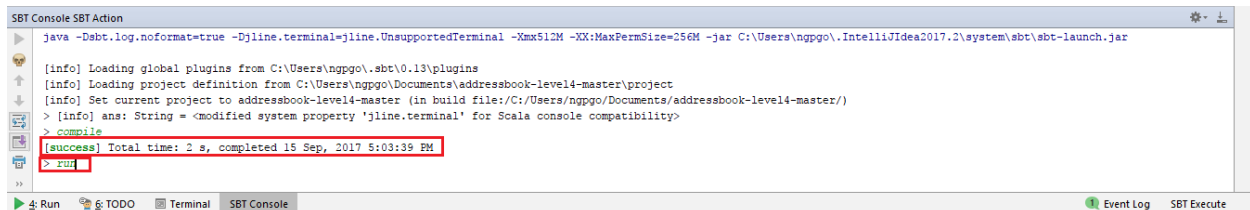
SBT Console SBT Action

```
java -Dabt.log.noformat=true -Djline.terminal=jline.UnsupportedTerminal -Xmx512M -XX:MaxPermSize=256M -jar C:\Users\ngpgo\IntelliJ\Idea2017.2\system\sbt\sbt-launch.jar
```

[info] Loading global plugins from C:\Users\ngpgo\sbt\0.13\plugins
[info] Loading project definition from C:\Users\ngpgo\Documents\addressbook-level4-master\project
[info] Set current project to addressbook-level4-master (in build file: C:/Users/ngpgo/Documents/addressbook-level4-master/)
> [info] ans: String = <modified system property 'jline.terminal' for Scala console compatibility>
> compile

Run | TODO | Terminal | SBT Console | Event Log | SBT Execute

Once compilation is successful execute the command Run



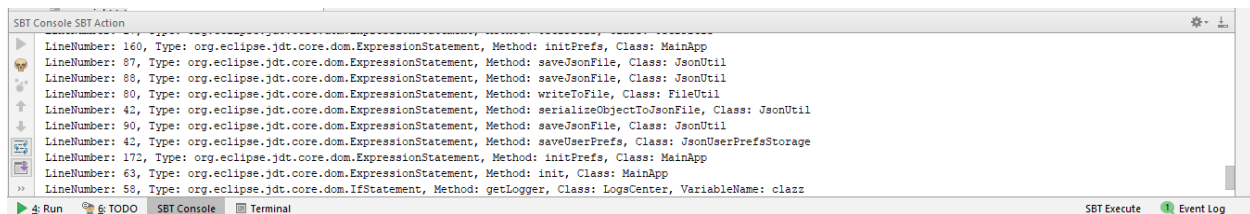
SBT Console SBT Action

```
java -Dabt.log.noformat=true -Djline.terminal=jline.UnsupportedTerminal -Xmx512M -XX:MaxPermSize=256M -jar C:\Users\ngpgo\IntelliJ\Idea2017.2\system\sbt\sbt-launch.jar
```

[info] Loading global plugins from C:\Users\ngpgo\sbt\0.13\plugins
[info] Loading project definition from C:\Users\ngpgo\Documents\addressbook-level4-master\project
[info] Set current project to addressbook-level4-master (in build file: C:/Users/ngpgo/Documents/addressbook-level4-master/)
> [info] ans: String = <modified system property 'jline.terminal' for Scala console compatibility>
> compile
[success] Total time: 2 s, completed 15 Sep, 2017 5:03:39 PM
> run

Run | TODO | Terminal | SBT Console | Event Log | SBT Execute

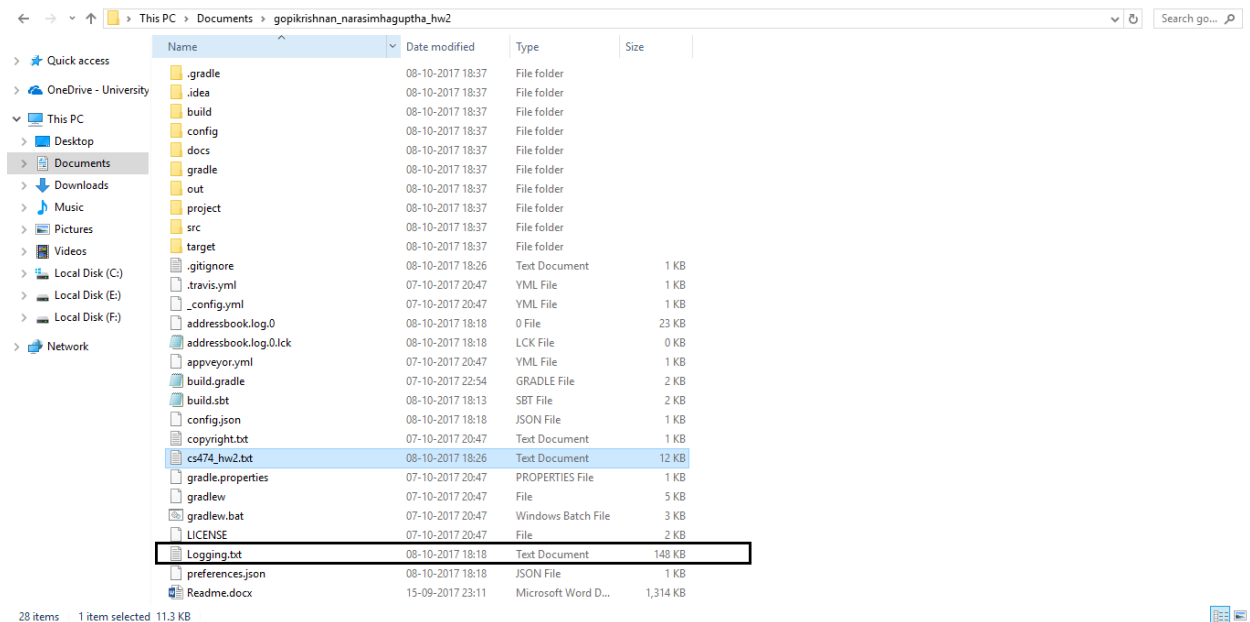
The command invokes the main UI of the application and prints the parser logging information on console as well as logging.txt file.



SBT Console SBT Action

```
LineNumber: 160, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: initPrefs, Class: MainApp  
LineNumber: 87, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: saveJsonFile, Class: JsonUtil  
LineNumber: 88, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: saveJsonFile, Class: JsonUtil  
LineNumber: 80, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: writeToFile, Class: FileUtils  
LineNumber: 42, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: serializeObjectToJsonFile, Class: JsonUtil  
LineNumber: 90, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: saveJsonFile, Class: JsonUtil  
LineNumber: 42, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: saveUserPrefs, Class: JsonUserPrefsStorage  
LineNumber: 172, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: initPrefs, Class: MainApp  
LineNumber: 63, Type: org.eclipse.jdt.core.dom.ExpressionStatement, Method: init, Class: MainApp  
LineNumber: 58, Type: org.eclipse.jdt.core.dom.IfStatement, Method: getLogger, Class: LogCenter, VariableName: clazz
```

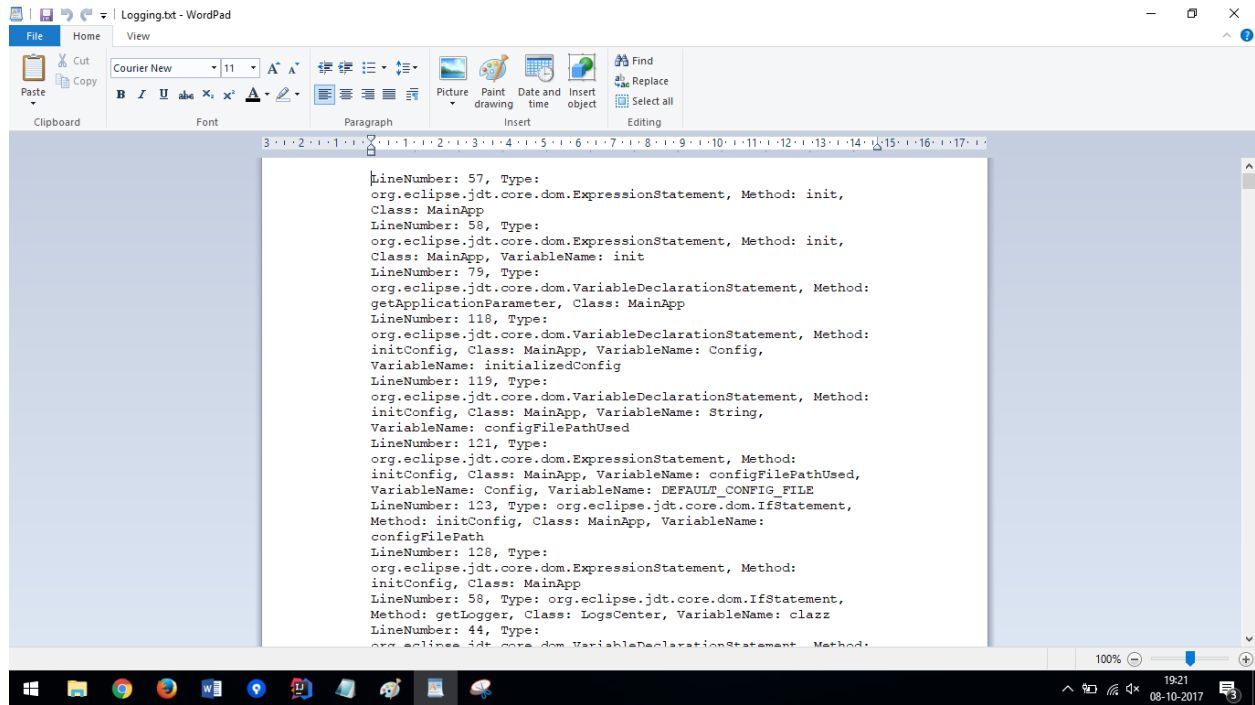
Run | TODO | SBT Console | Terminal | SBT Execute | Event Log



This PC > Documents > gopikrishnan_narasimhaguptha_hw2

Name	Date modified	Type	Size
.gradle	08-10-2017 18:37	File folder	
.idea	08-10-2017 18:37	File folder	
build	08-10-2017 18:37	File folder	
config	08-10-2017 18:37	File folder	
docs	08-10-2017 18:37	File folder	
gradle	08-10-2017 18:37	File folder	
out	08-10-2017 18:37	File folder	
project	08-10-2017 18:37	File folder	
src	08-10-2017 18:37	File folder	
target	08-10-2017 18:37	File folder	
.gitignore	08-10-2017 18:26	Text Document	1 KB
.travis.yml	07-10-2017 20:47	YML File	1 KB
_config.yml	07-10-2017 20:47	YML File	1 KB
addressbook.log.0	08-10-2017 18:18	0 File	23 KB
addressbook.log.0.lck	08-10-2017 18:18	LCK File	0 KB
appveyor.yml	07-10-2017 20:47	YML File	1 KB
build.gradle	07-10-2017 22:54	GRADLE File	2 KB
build.sbt	08-10-2017 18:13	SBT File	2 KB
config.json	08-10-2017 18:18	JSON File	1 KB
copyright.txt	07-10-2017 20:47	Text Document	1 KB
cs474_hw2.txt	08-10-2017 18:26	Text Document	12 KB
gradle.properties	07-10-2017 20:47	PROPERTIES File	1 KB
gradlew	07-10-2017 20:47	File	5 KB
gradlew.bat	07-10-2017 20:47	Windows Batch File	3 KB
LICENSE	07-10-2017 20:47	File	2 KB
Logging.txt	08-10-2017 18:18	Text Document	148 KB
preferences.json	08-10-2017 18:18	JSON File	1 KB
Readme.docx	15-09-2017 23:11	Microsoft Word D...	1,314 KB

28 items 1 item selected 11.3 KB



3) AST Parser

The parser logic can be found in to src/main/java/ParserMain folder.

