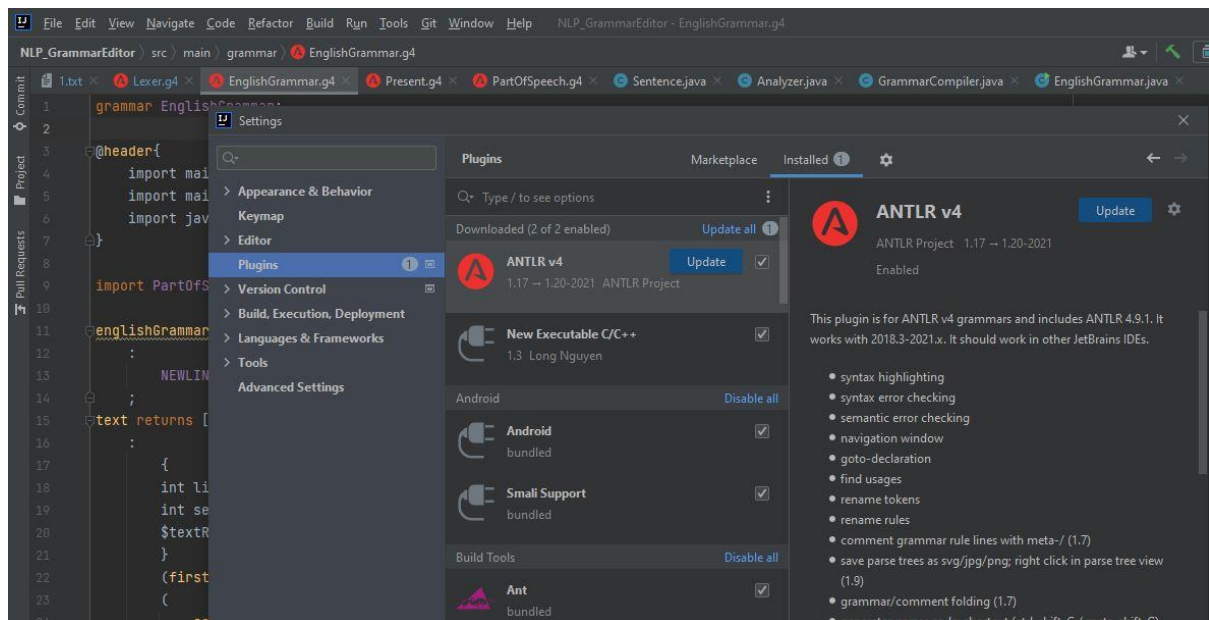


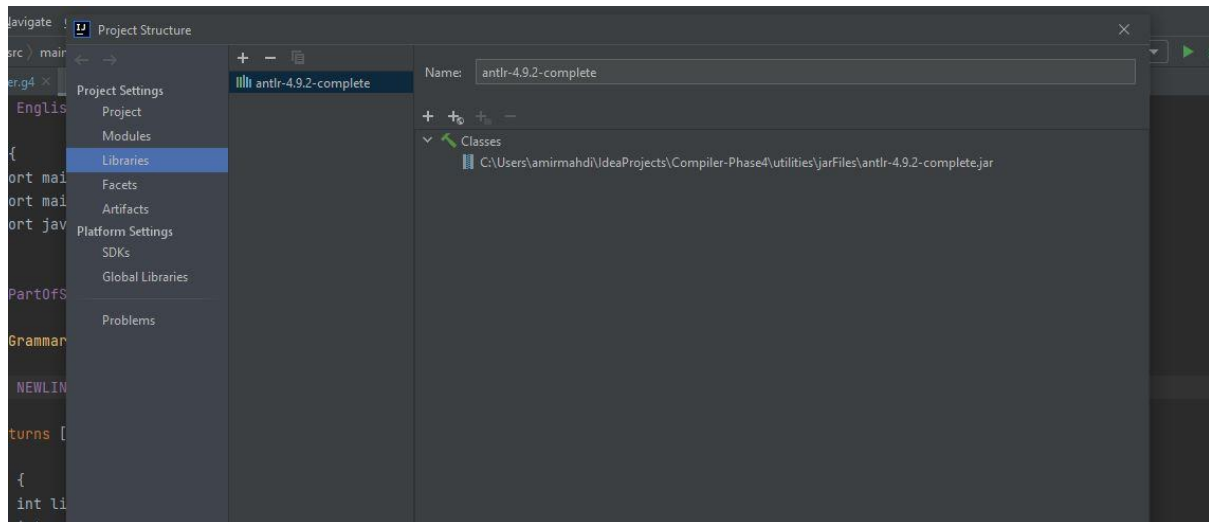
Guidance for How to Run GrammarEditor

1) Installing IntelliJ Idea: The version is not decisive, it should only support ANTLR. After installing IntelliJ Idea, clone the repository.

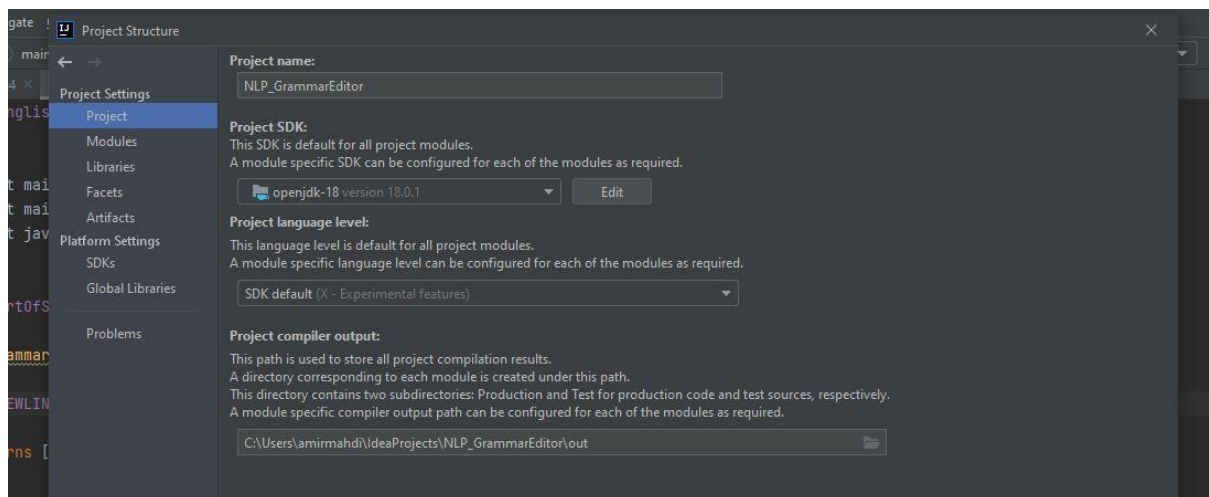
2) Installing ANTLR Plug-in: Go to File/Settings/Plugins and install ANTLR v4.



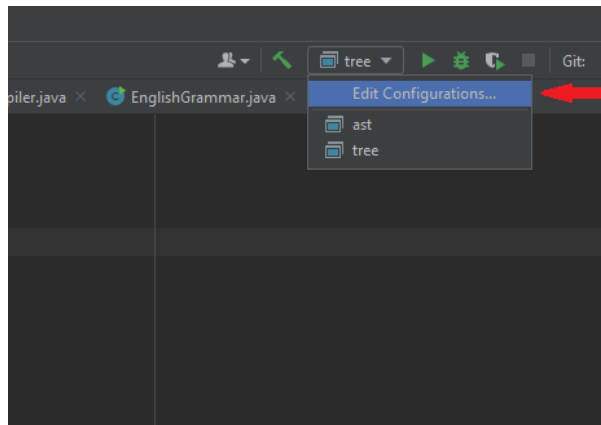
3) Including ANTLR jar file: Go to File/Project Structure/Libraries and select the ANTLR jar file included in the repository.



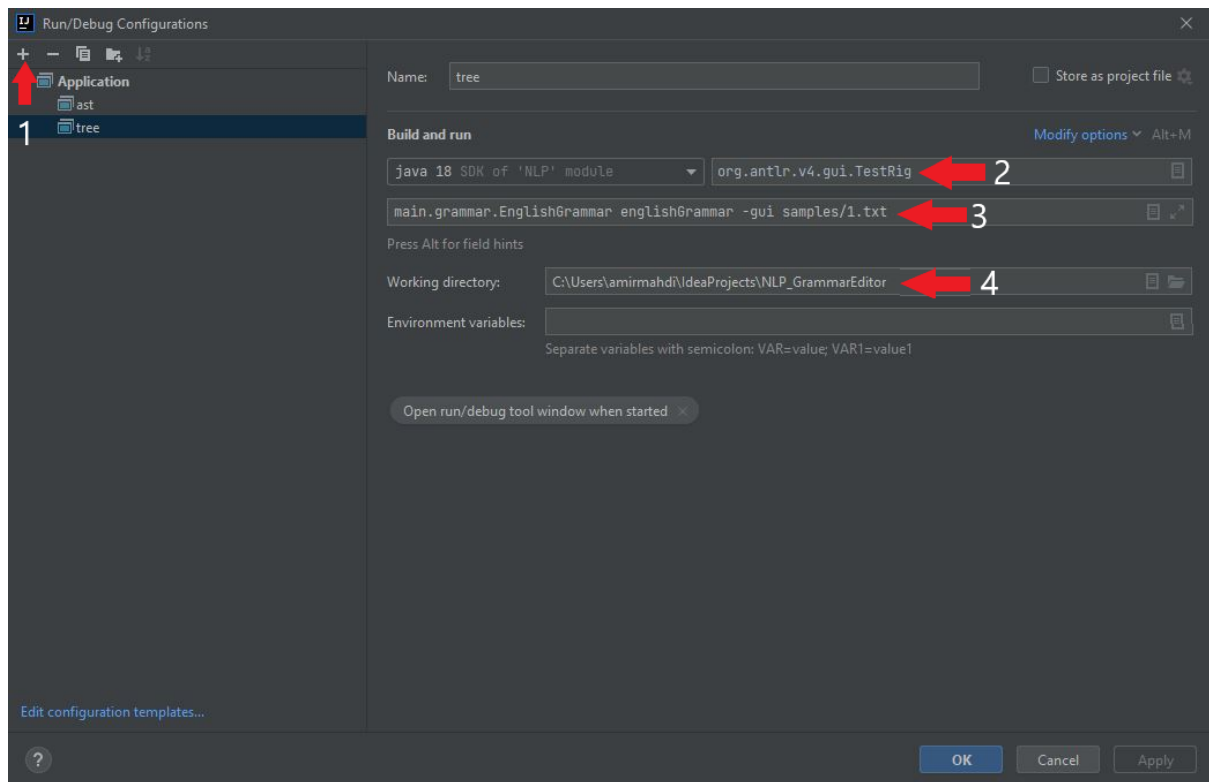
4) Checking project SDK: Although the SDK is set to default for all projects, double-checking is recommended. (File/Project Structure/Project)



5) Building Configuration files: Now it is time to see the outputs. First, build a new configuration by clicking on Edit Configurations.

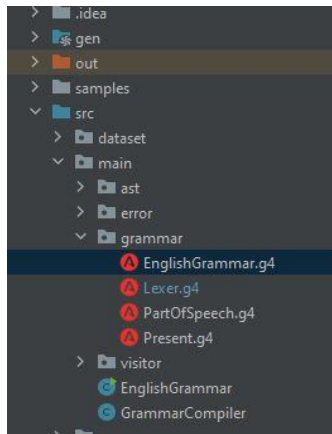


5-a) Configuration file for viewing parsing tree:



After making a new configuration file (step 1), enter org.antlr.v4.gui.TestRig as the main class (step 2). The third step takes multiple inputs:

- The main grammar file (.g4): Write the address of the main grammar file in the first input. In this project, the main g4 file is EnglishGrammar.g4, which is located in main/grammar folder. (main.grammar.EnglishGrammar)



- The main parsing rule: The first parsing rule, from which parsing all inputs begins should be determined. (Here, englishGrammar)

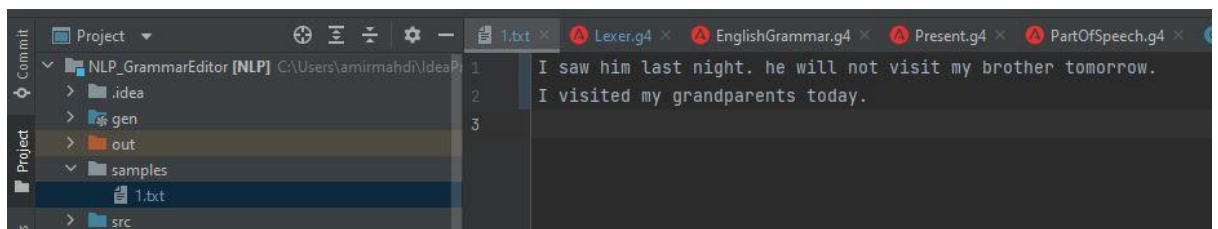
```
@header{
    import main.ast.*;
    import main.error.*;
    import java.util.*;
}

import PartOfSpeech, Present, Lexer;

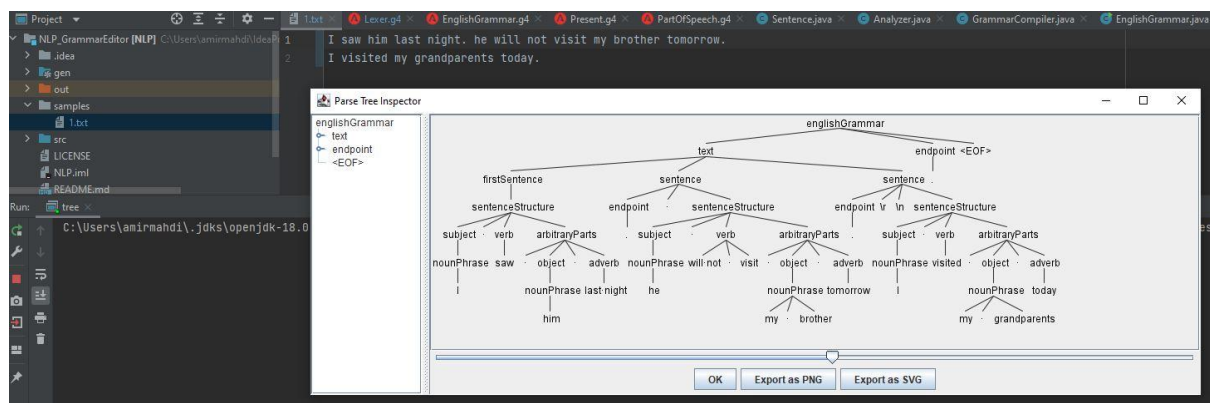
englishGrammar returns [Text whole]
:
    NEWLINE* t = text {$whole = $t.textReturn;} (endpoint NEWLINE* EOF)
;

text returns [Text textReturn]
:
```

- Graphical User Interface: Enter -gui for visualizing the parsing tree.
- Test case: Enter the address of the testcase (Here, samples/1.txt)

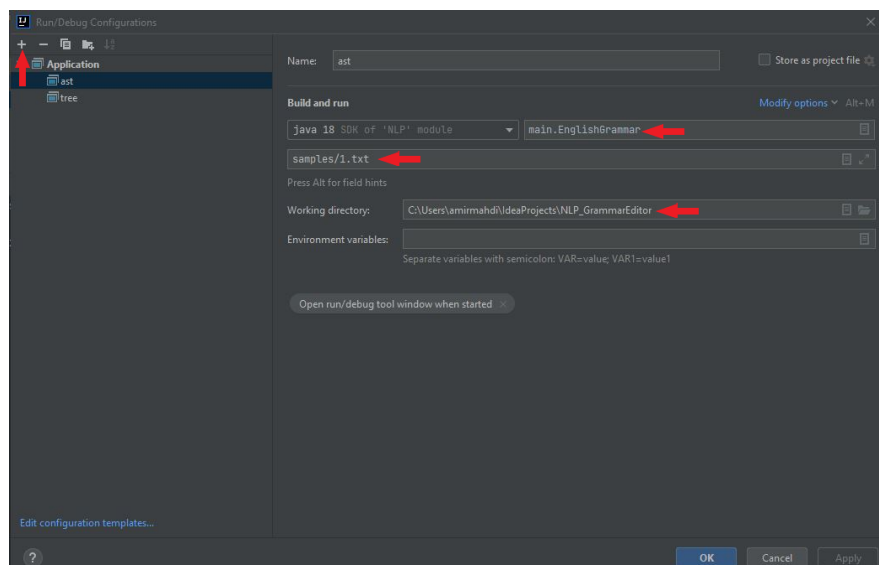


Run the test case:



5-b) Configuration file for viewing grammatical mistakes:

It is simpler than the first case. Again, make a new configuration file and then set the inputs. Pay attention to minor differences between the inputs in this case and those in the previous one.



Run the test case:

