HOW TO RUN

Prerequisites:

1. Windows OS
2. Graphviz installed in windows. The installer msi is present in the folder.
   Set the environment variable by clicking on:
   - My Computer/Properties/Advanced/Environment Variables
   - Create **GRAPHVIZ_DOT** to your executable.
     For example: d:\example\dot.exe

FORMAT:

"EXE-PATH" "JAVA-SRC-FILES-PATH" "OUTPUT-PNG-FILE-PATH"

EXAMPLE:

"E:\ umlparser.exe" "E:\uml-parser-test-5\uml-parser-test-5" "E:\output.png"

Libraries and tools Used:

1. **Java Parser**: this is an open source java parser library present at https://github.com/javaparser/javaparser. This library provides the functionality of parsing java source files and extracting various information like class constructor, interface, method definitions, member variables, static member functions/variables etc.. I used this library and populated the class information like associations, dependencies etc in a data structure. I directly used the direct jar file of this library.

2. **PlantUML:** PlantUML is an open source library/plugin to generate various kinds of uml diagrams and sequence diagrams (http://plantuml.com/). It provides a simple interface where one can provide the uml diagram relations in a specified language. I used this library to generate the output uml diagrams by parsing the data structures created using javaParser library. Using an intermediate data structure, I was able to decouple uml generation logic from java files parsing logic.

3. **Graphviz:** This is an open source and free tool to create graphical diagrams and abstract networks (http://www.graphviz.org/). The Graphviz layout programs take descriptions of graphs in a simple text language, and make diagrams in useful formats, such as images and SVG for web pages. PlantUML uses graphviz internally to generate the output diagrams in png/pdf format.