

**Gebze Technical University
Computer Engineering**

CSE 222 - 2018 Spring

HOMEWORK 3(2) REPORT

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Course Assistant:

1. INTRODUCTION

1.1. Problem Definition

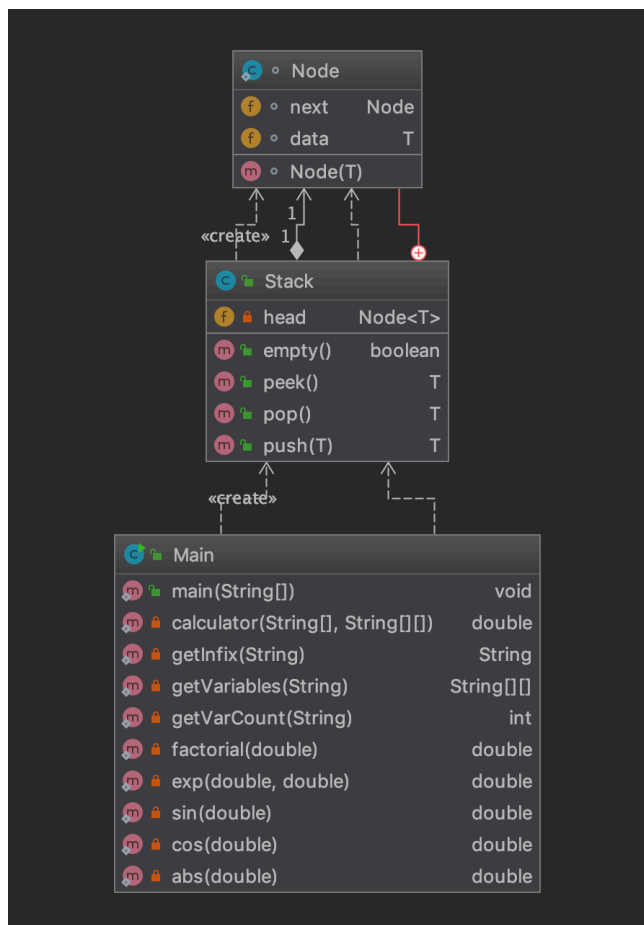
Calculating the infix expression with provided variables and functions in the infix expression using stack.

1.2. System Requirements

Program can work on every operating system which have a java. Program can work on smartphones if smartphone can execute java.

2. METHOD

2.1. Class Diagrams



2.2. Use Case Diagrams

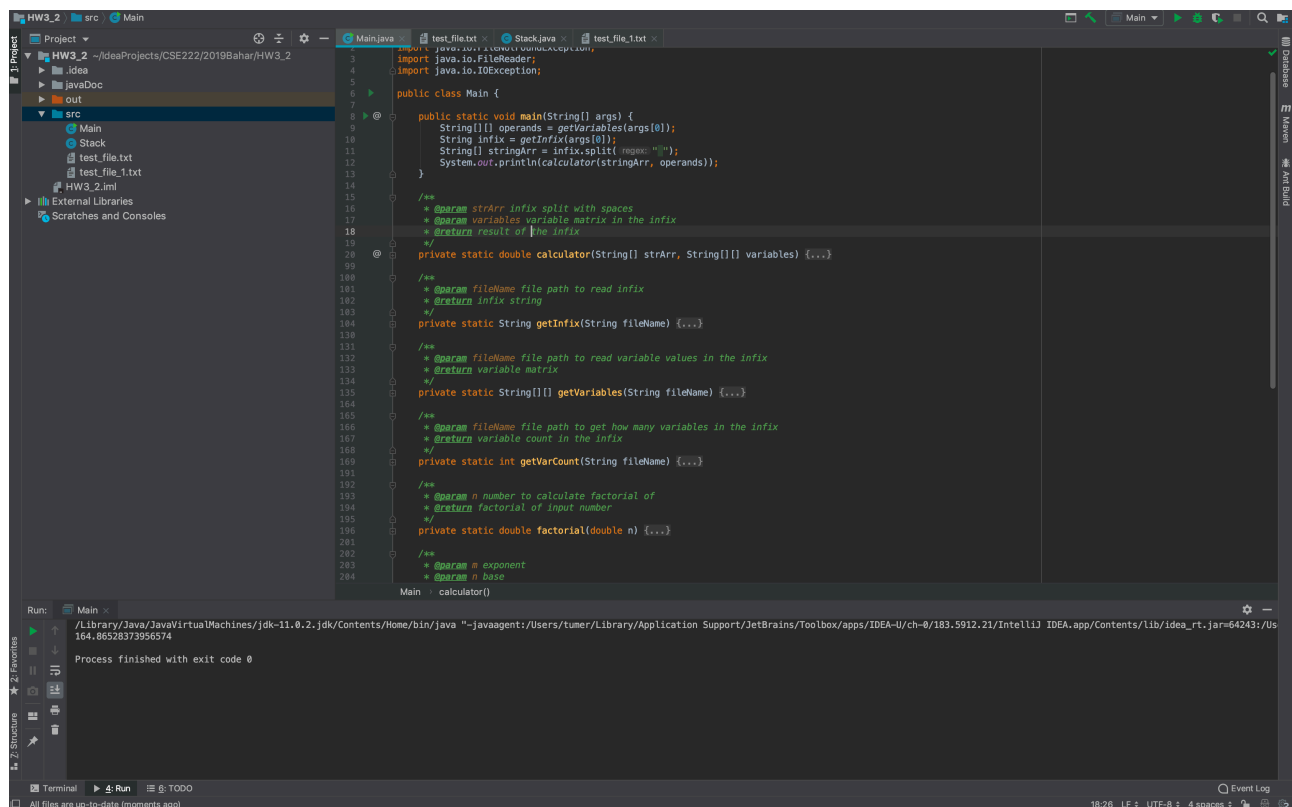
Compile the project and run with command like that “java Main <filePath>” and see the component number.

3. RESULT

3.1. Test Cases

Tested with the sample files.

3.2. Running Results



The screenshot displays an IDE with a project named 'HW3_2'. The 'src' folder contains 'Main.java', 'test_file.txt', and 'test_file_1.txt'. The 'Main.java' file is open, showing a public class 'Main' with a 'main' method and several static methods: 'calculator', 'getInfix', 'getVariables', 'getVarCount', and 'factorial'. The 'main' method reads input from 'test_file.txt' and prints the result of the 'calculator' method. The 'calculator' method takes a string array and a string array of variables and returns a double. The 'getInfix' method takes a file name and returns a string. The 'getVariables' method takes a file name and returns a string array. The 'getVarCount' method takes a file name and returns an integer. The 'factorial' method takes a double and returns a double. The 'Run' button is clicked, and the output window shows the command: `java -javaagent:/Library/Java/JavaVirtualMachines/jdk-11.0.2.jdk/Contents/Home/bin/java -javaagent:/Users/tuner/Library/Application Support/JetBrains/Toolbox/apps/IDEA-U/ch-0/183.5912.21/IntelliJ IDEA.app/Contents/lib/idea_rt.jar=64243:/Library/Java/JavaVirtualMachines/jdk-11.0.2.jdk/Contents/Home/bin/java`. The process finished with exit code 0.

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