Levine, Miles L

cmsc204  Prof. Kuijt

assignment 2 implemtation

Screenshot of GitHub:A screenshot of a computer

Description automatically generated

Screenshot of UML:Diagram

Description automatically generated

Screenshots of program running:Graphical user interface, application

Description automatically generated

Screenshot of JUnit test cases:Graphical user interface, text, application

Description automatically generated

Lessons Learned:

What have you learned?

I learned more about how to make my own exceptions and use them in my utility class and throw them when necessary. I also learned how to implement stacks and queues. I implemented the stack and queue by using an ArrayList. I gained more experience with debugging my code and trying to fix the errors I had while programming.

What did you struggle with?

I struggled with coding the MyStack and MyQueue classes. I didn’t understand how to implement the methods to add and delete items in both the stack and queue. I was also a little confused because I had to match both classes with the interface. I also struggled with the JUnit tests for all 3 classes. I had to modify the provided JUnit classes to work with my code. I did some more research on why the JUnit didn’t work for me and I concluded that I had an outdated version of JUnit. I had to add the throws declaration for each method in the JUnit methods. I found out that if your have JUnit version 9 it works without needing to modify the provided tests.

What would you do differently on your next project?

For my next project I would start it much earlier. Another thing that I would do differently is to do some more research on stacks and queues or the concepts that will be utilized in the assignment and to better understand them. By doing this, I think that I will be better prepared for writing the program.