**CMSC 204**

**ASSIGNMENT 2 WRITE UP**

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**Summary & Lesson Learned:**

This assignment was difficult for me as the concept of stacks and queues was totally new for me. I got to learn what stack and queue are and how they work. I also learned to convert infix to postfix and vice versa and to evaluate the value of both types of notations. The algorithms provided to us helped me a lot while writing my code.

The most challenging part of this assignment for me was to understand how stacks and queues worked. I had to watch multiple videos and examples repeatedly just to get a better understanding. The project was straight forward after I understood the concept. The interfaces given to us helped me know about the methods to be created in the classes implementing each interface. Another problem I faced during the assignment was that I was constantly throwing underflow exception instead of invalidNotationFormat exception. After debugging, I found out that my code was ignoring the invalidNotationFormat exception when I pop( ) an element from stack which was the reason it kept catching the underflow exception.

This assignment was harder than the previous assignment as it was about something new. Learning about the stacks and queues while simultaneously thinking about the project as well also helped me understand how it worked. I don’t think I would have understood how stack and queues worked if it was not for this assignment.