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Project 2 Documentation

Approach:

I began by reading the program specifications from the documentation provided. From this I learned the requirements of the classes and associated methods and how they would interact with each other. I first wrote my Student class as it was the superclass for the Undergraduate and Graduate classes. Following writing my Student, Undergraduate, and Graduate classes, I wrote my Project2 class which held the main methods of the program.

Class Diagram:

A diagram of a student

Description automatically generated

Test Cases:

|  |  |  |  |
| --- | --- | --- | --- |
| INPUT | EXPECTED | ACTUAL | PASS |
| students.txt in active directory | GPA threshold for membership is: 3.81  Name: Johnson,Mary GPA: 3.90 Masters | GPA threshold for membership is: 3.81  Name: Johnson,Mary GPA: 3.90 Masters | Yes |
| File is in a different directory | Program terminates | Program terminates | YEs |

Reflection:

The only aspect of my project I was unsure on was the actual file pathname. When I would only put “students.txt” I would get an error but when I put “src/students.txt” my code would compile.