A picture containing text, outdoor, building, white

Description automatically generated

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| **Student name:** | **Hussaina Hussain** | | | | | |
| **Student number:** | **3136381** | | | | | |
| **Faculty:** | **Computing Science** | | | | | |
| **Course:** | **BSCH/BSCO/EXCH** | | | **Stage/year:** | **2** | |
| **Subject:** | **Software Development 2** | | | | | |
| **Study Mode:** | Full time | **Icon  Description automatically generated** |  | Part-time |  |  |
| **Lecturer Name:** | **Gemma Deery** | | | | | |
| **Assignment Title:** | **Worksheet 1** | | | | | |
| Date due: | **19/02/2025** | | |  | | |
| Date submitted: | **19/02/2025** | | |  | | |
| **Plagiarism disclaimer:**  *I understand that plagiarism is a serious offence and have read and understood the college policy on plagiarism. I also understand that I may receive a mark of zero if I have not identified and properly attributed sources which have been used, referred to, or have in any way influenced the preparation of this assignment, or if I have knowingly allowed others to plagiarise my work in this way.*  *I hereby certify that this assignment is my own work, based on my personal study and/or research, and that I have acknowledged all material and sources used in its preparation. I also certify that the assignment has not previously been submitted for assessment and that I have not copied in part or whole or otherwise plagiarised the work of anyone else, including other students.*  **Signed: Hussaina Hussain Date: 19/02/2025** | | | | | | |
| Please note: Students MUST retain a hard / soft copy of ALL assignments as well as a receipt issued and signed by a member of Faculty as proof of submission. | | | | | | |

Contents

[Task One 3](#_Toc190862682)

[**Part One:** 3](#_Toc190862683)

[**Part Two:** 6](#_Toc190862684)

[**Part Three:** 8](#_Toc190862685)

[Task 2 10](#_Toc190862686)

[**Part One:** 10](#_Toc190862687)

[Part Two: 12](#_Toc190862688)

[**Part Three:** 13](#_Toc190862689)

[**Git Log:** 15](#_Toc190862690)

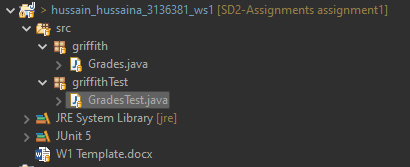
[**Screenshot of Repository on GitHub** 17](#_Toc190862691)

Link to GitHub:  
<https://github.com/Anaissuh13/SD2-Assignments>

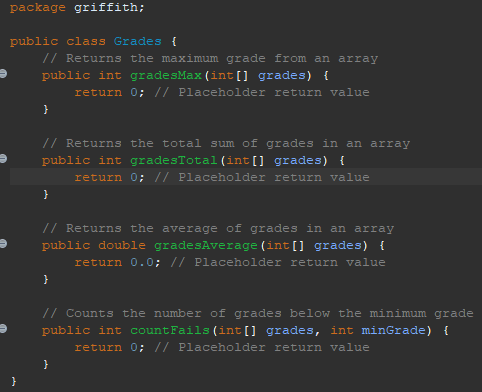
## Task One

### **Part One:**

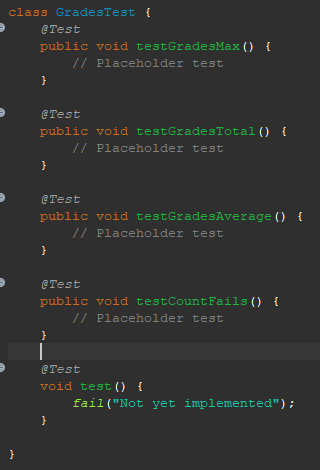
* Created the class Grades.java under the package griffith and GradesTest.java under the package griffithTest.

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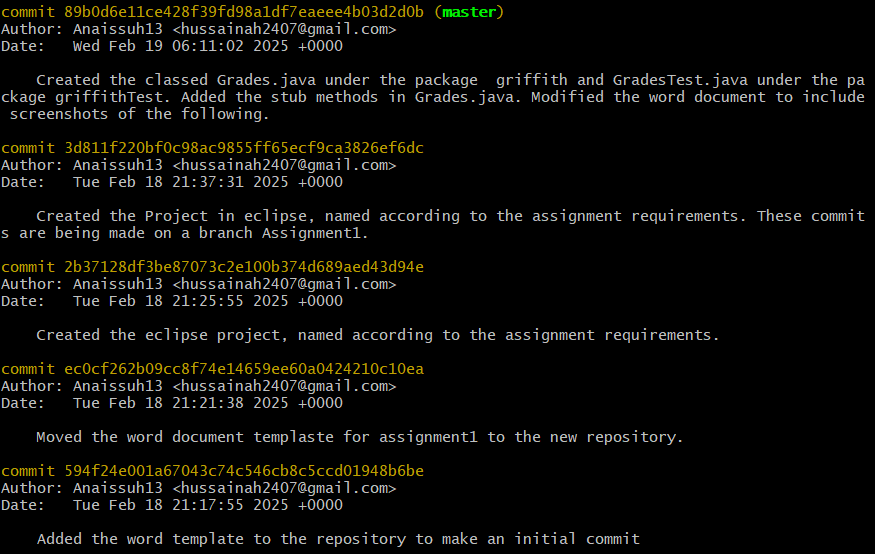
* Stub methods added in Grades.java

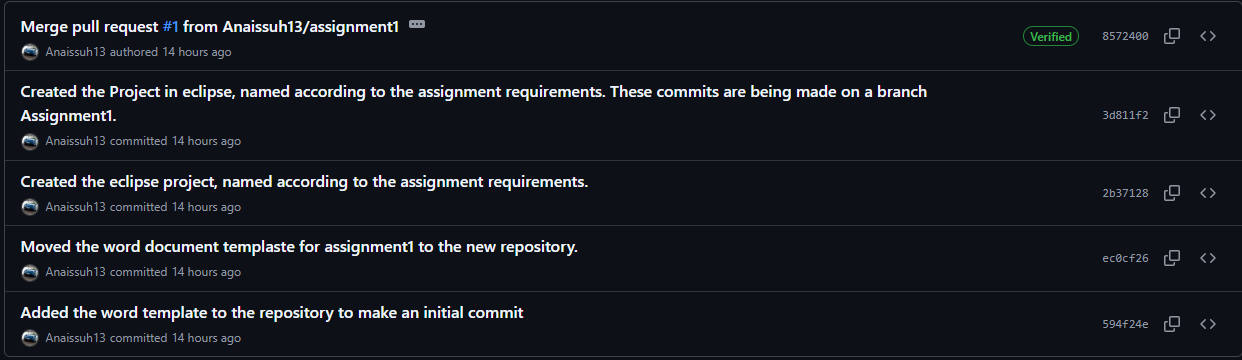
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* Stub methods added in GradesTest.java

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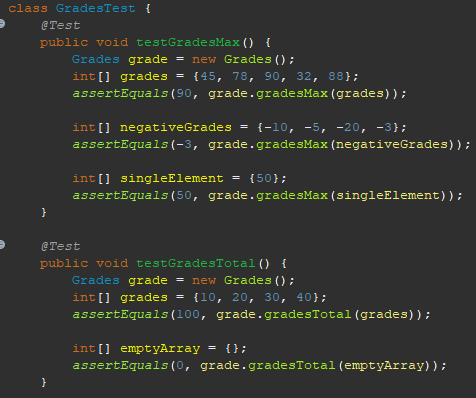
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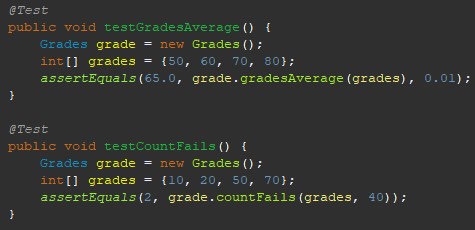
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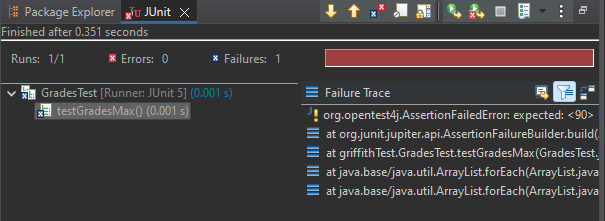
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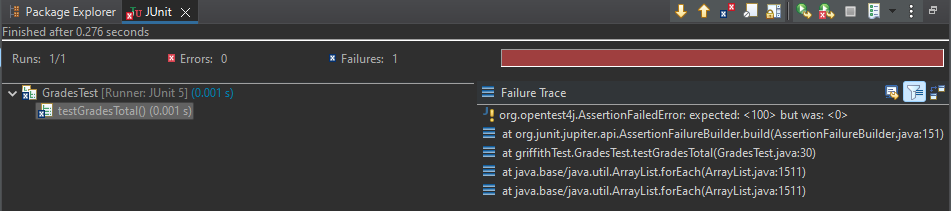
### **Part Two:**

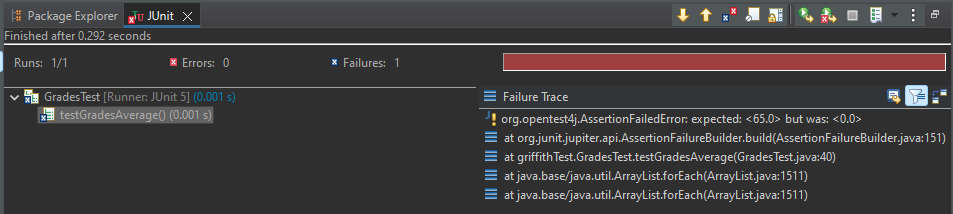
* Writing test cases for each of the unit test methods that call the appropriate methods in java file.

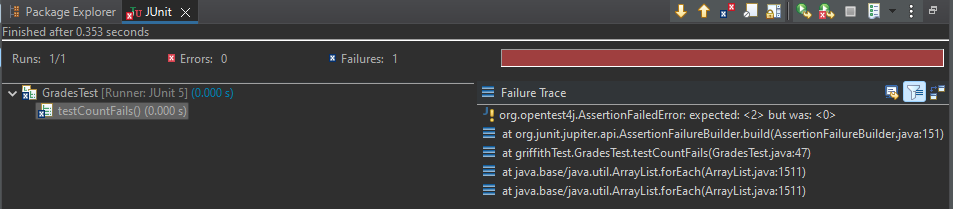
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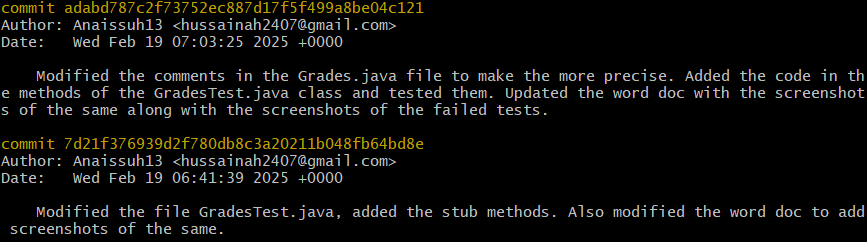
* Failing tests:  
  ****

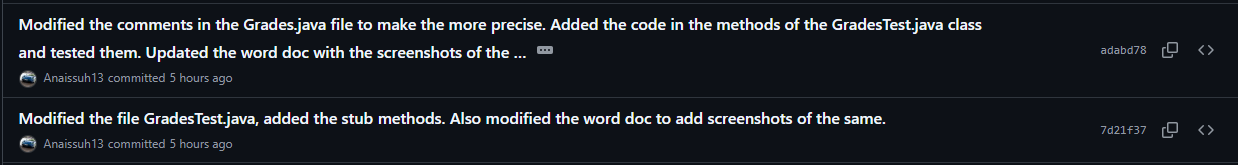
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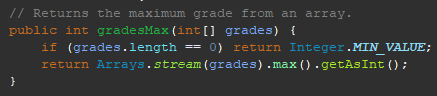
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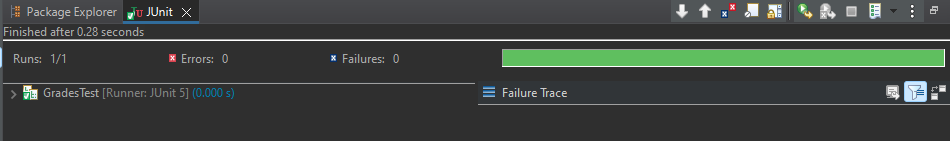
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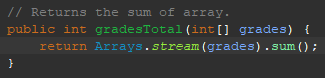
### **Part Three:**

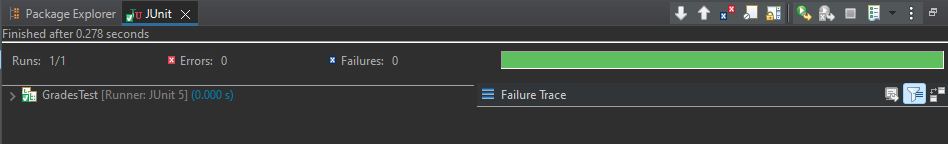
* Implementing and testing gradesMax method and testing it.



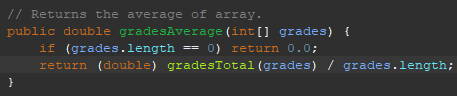
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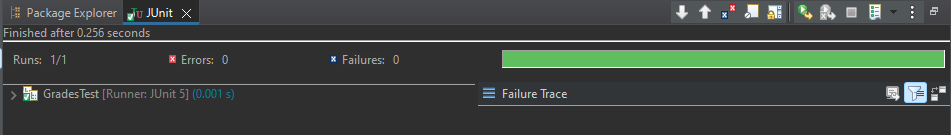
* Implementing and testing gradesTotal method and testing it.



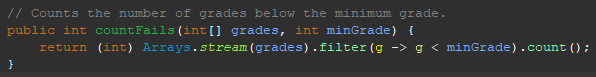
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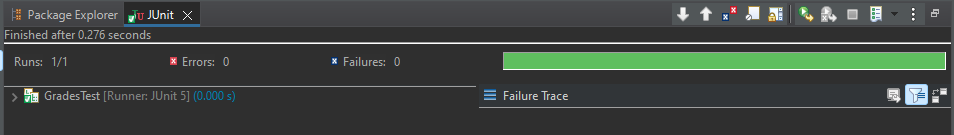
* Implementing and testing gradesAverage method and testing it.



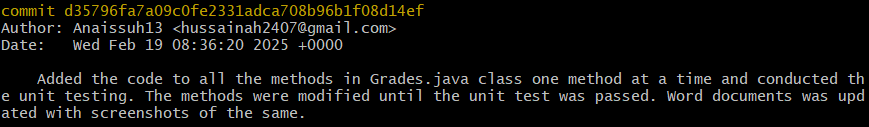
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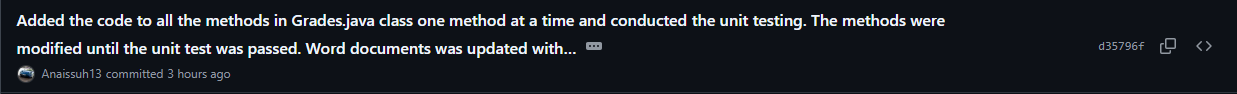
* Implementing and testing countFails method and testing it.



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* Commits made and pushed

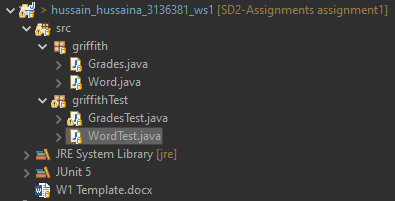
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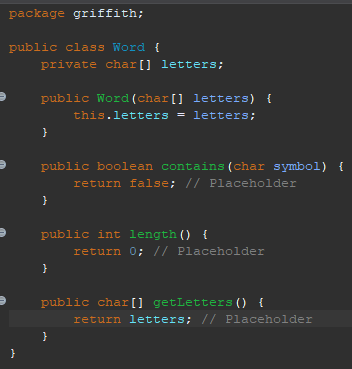
## Task 2

### **Part One:**

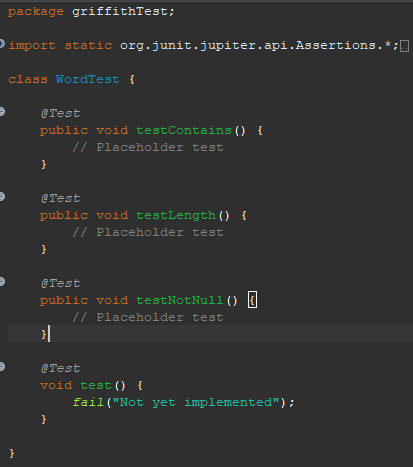
* Created the class Word.java under the package griffith and WordTest.java under the package griffithTest.

****

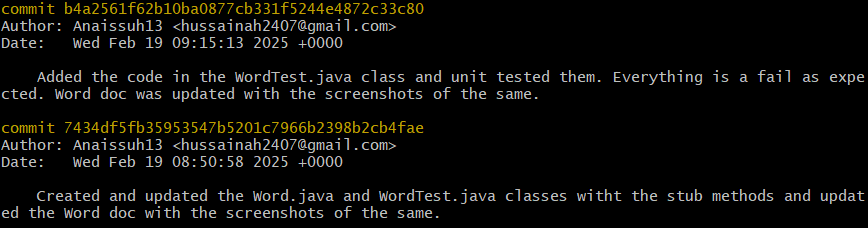
* Updated the Word.java file with the stub methods.

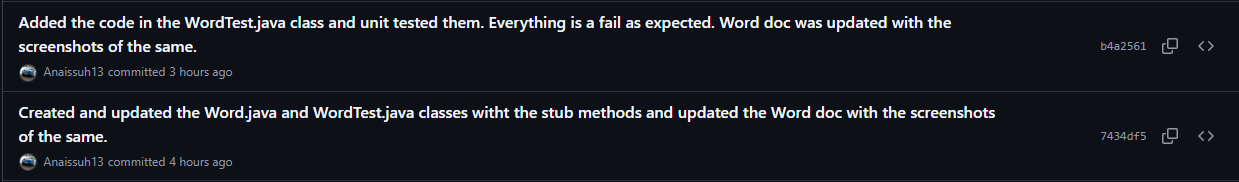
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* Updated the WordTest.java file with the stub methods.

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* Commits made and pushed

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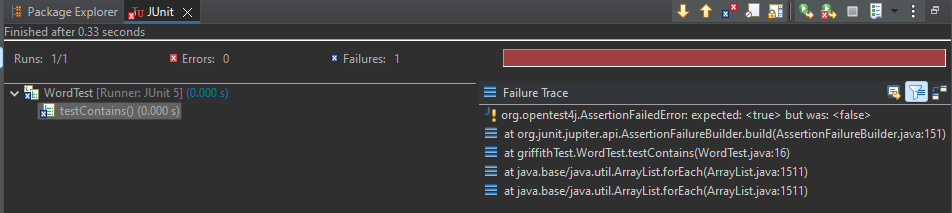
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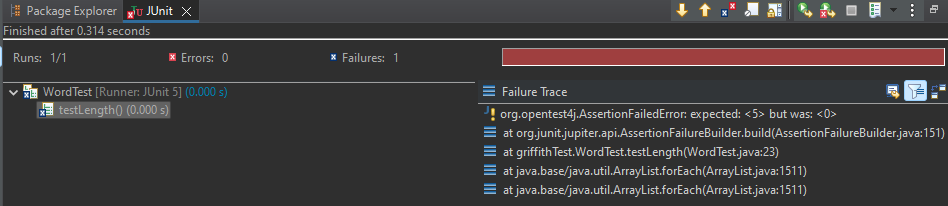
## Part Two:

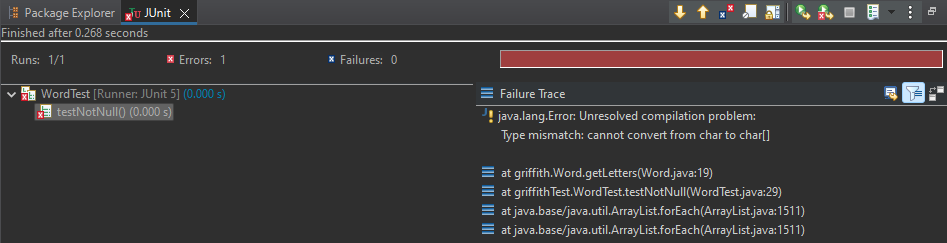
* Writing test cases for each of the unit test methods that call the appropriate methods in java file.

****

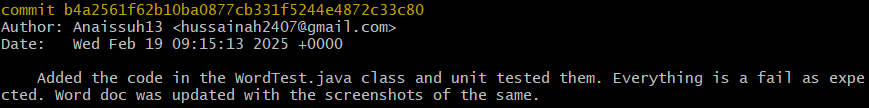
* Failing tests:

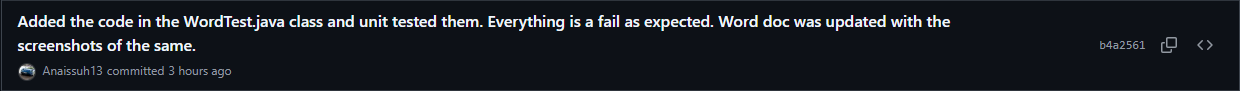






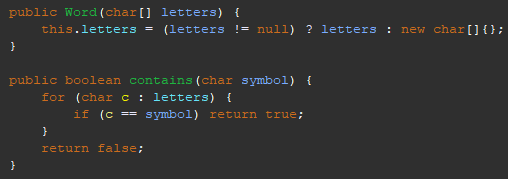
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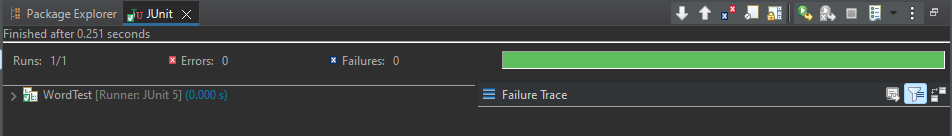




### **Part Three:**

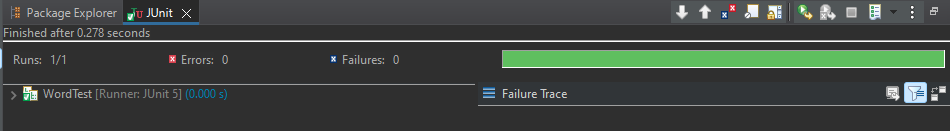
* Implementing and testing testContains method and testing it.



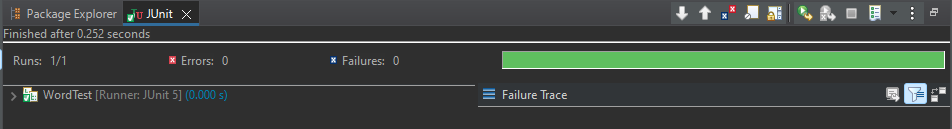


* Implementing and testing testLength method and testing it

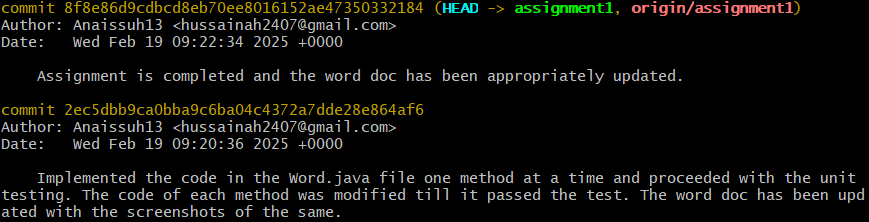




* Implementing and testing testNotNull method and testing it  
  

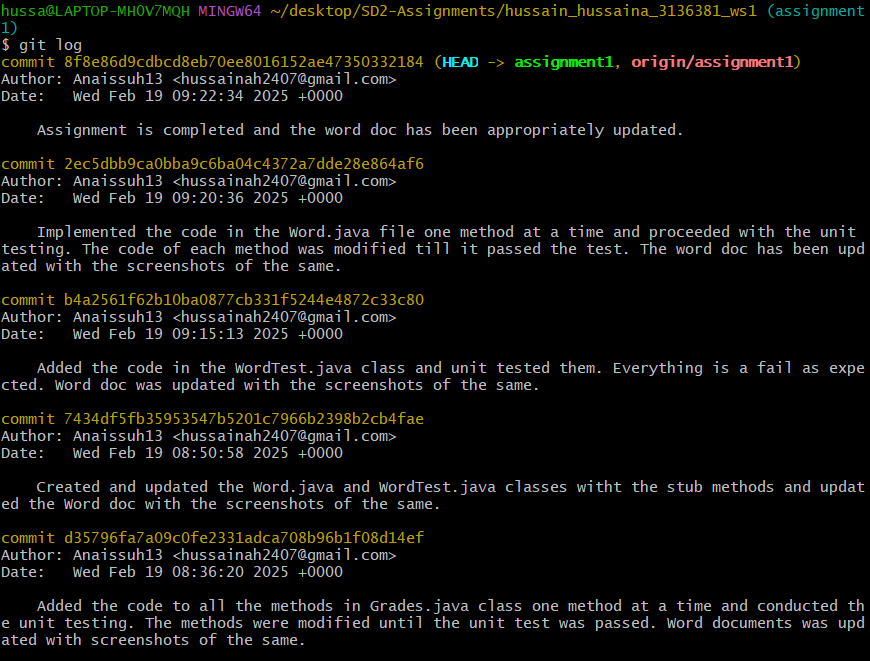


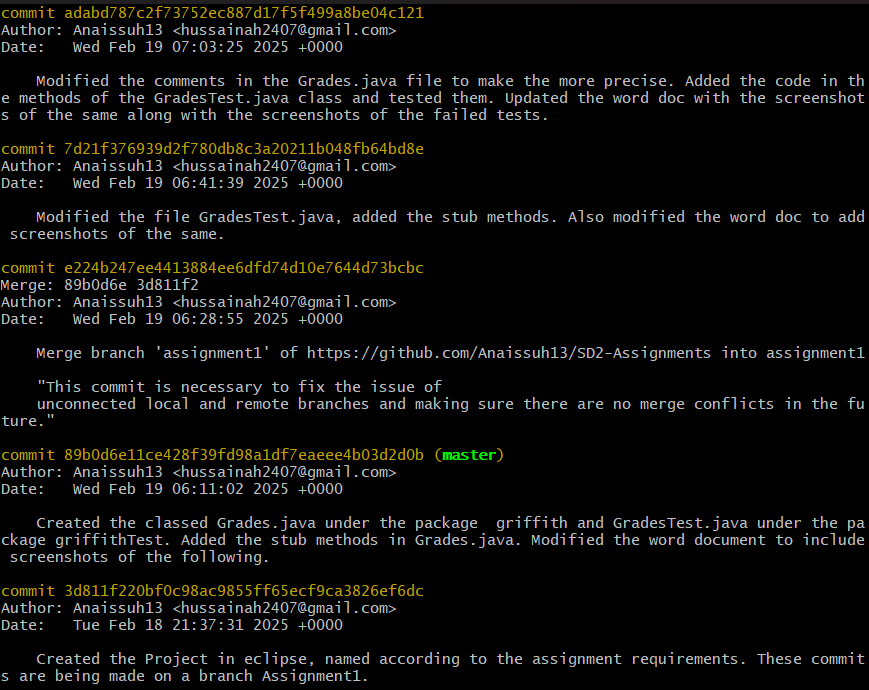
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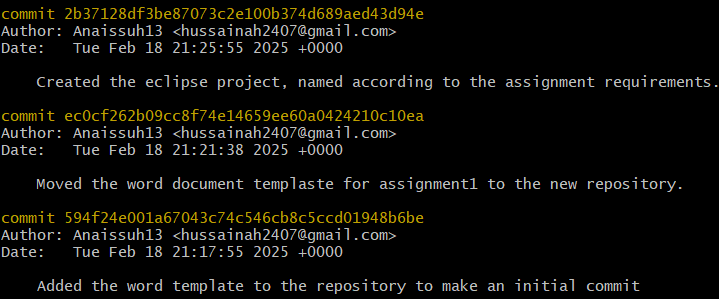




### **Git Log:**







### **Screenshot of Repository on GitHub**

