Fibonacci Sequence

Assignment 2

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Submitted to:

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CEN 4802C – Software Integration, Configuration, and Testing

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**Introduction**

In this assignment, students will implement the Fibonacci sequence along with implementing Git into their workflow. Students will document their workflow using screenshots in a separate document.

**Requirements**

* A functioning computer
* A working Integrated Development Environment
* Word processing software
* GitHub account
* Internet connection

**Discussion**

In this assignment, the student implemented two methods within one class. The first method called “main” simply prompts the user to enter a number used to calculate the corresponding value in the Fibonacci sequence. The second method, called “sequence”, is used to calculate the Fibonacci values based on the input received from the main method. Throughout development, the student documented finding via ten screenshots and used version control through GitHub. The main branch of this Fibonacci project can be found using the link below.

Link: <https://github.com/arivera247/CEN4802/tree/main/Fibonacci>

**Validation of Data**

A screenshot of a computer program

Description automatically generated with medium confidence

Figure 1 - Screenshot of successful calculation of the Fibonacci sequence.

A screenshot of a computer

Description automatically generated

Figure 2 - Screenshot showing Main class added to GitHub repo.

A screenshot of a computer

Description automatically generated with low confidence

Figure 3 - Newly created issue logged in GitHub.

A screenshot of a computer

Description automatically generated with low confidence

Figure 4 - Screenshot showing new branch created to address missing documentation issue.

A screenshot of a computer

Description automatically generated with medium confidence

Figure 5 - Screenshot showing Main.java class updated in the MissingDocs branch. Note the status message above stating the branch is 2 commits ahead of the main branch.

A screenshot of a computer

Description automatically generated with medium confidence

Figure 6 - Screenshot demonstrating a newly created pull request for the MissingDocs branch merge into the main branch.

A screenshot of a computer

Description automatically generated

Figure 7 - Screenshot containing side by side comparison of main and MissingDocs branches. Newly added code is highlighed in green within the IDE. For emphasis, newly added code in screenshot was boxed in red using a markup tool.

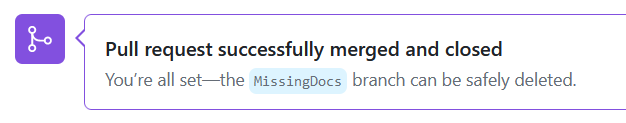


Figure 8 - Screenshot showing both main and MissingDocs branches were merged successfully.

A screenshot of a computer

Description automatically generated with medium confidence

Figure 9 - Screenshot showing remaining branches. The MissingDocs branch is missing since it was deleted after successfully merging the branch to main.

**Conclusion**

Enter your answer here. Use 2-4 sentences.