Dear Mr. Watchorn,

Executive Summary:

I hope this email finds you well. As per your instruction, I have completed the limit test assignment using a MATLAB script. Please find below the executive summary, discussion, outcomes, and conclusions of the test.

The MATLAB script is designed to determine if a user has exceeded their daily limit of hours on the computer. The script prompts the user with a message indicating whether they have exceeded the limit or not.

Discussion:

In creating the script, I made certain decisions regarding documentation, modularity, and style. To ensure that the script is easy to understand and maintain, I documented each section of the code with comments. I also used meaningful variable names to improve code readability. Furthermore, I created separate sections for declaring variables, initializing flags, and prompting the user to improve modularity.

Outcomes:

I tested the script by simulating different values for the variable "hoursOnComputer." The script accurately determined whether the user had exceeded their daily limit or not. The prompt message was also displayed correctly based on the value of "limitReached."

Graphical user interface, text, application

Description automatically generated

With the “hoursOnComputer” variable set to 24, this is the prompt that is given to the user.

Text

Description automatically generated with medium confidence

With the “hoursOnComputer” variable set to 10, this is the prompt that is given to the user.

Conclusions:

In conclusion, the MATLAB script is an effective tool for limiting computer usage. The script's modularity and documentation make it easy to understand and maintain. Based on the test outcomes, I can confidently say that the script behaves as expected.

Please let me know if you have any questions or concerns.

Best regards,

Michael Dekoski