Assignment

Shell programming, LEDs

Make a shell script in BASH that can control the four user LEDs on the BeagleBone Black.
You can work together in your study group and upload it to
itsLearning as a group.

Requirements:

All authors must be named in a comment in the beginning of the
script.
The script must take two or three arguments.
First argument is the LED to manipulate and must be one of the following text strings:
"led0", "led1", "led2", "led3", "all"

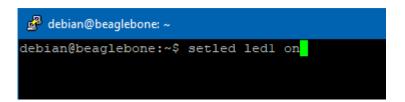Second argument is mode, and can be:
"on", "off", "heartbeat", "blink", "default" (see System Reference Manual for default functions)

If second argument is "blink" then an optional third argument gives the frequency in Hz.
Alternatively, the program could prompt the user for input of the frequency.

The script must check if all necessary arguments are given, and display a help text if not.
The script must also be able to display user help if the option "--help" is given as argument.

It is acceptable to use sudo to run the script when the blink feature is selected. Why is this
necessary?

You are free to name your script after your own liking 😊

ENJOY THE CHALLENGE!