**BuildAThermostat ReflectionLog**

**(CSE2920 – Challenge)**

How has your program changed from planning to coding to now? Explain.

Planning was seldom needed for this assignment, the exact operation of the thermostat was written out on the phidgets website:

A screenshot of a white text

Description automatically generated

To start, I copied the declaration, addressing, and opening functions from my HotOrCold assignment and added appropriate methods to declare/address/open the buttons as well.

A screenshot of a computer program

Description automatically generated

The most difficult part of the program is using different polling speeds for the buttons and the sensors. I want the user’s button presses to register immediately, So I have to poll the buttons every split second, but the information has to be printed every 10 seconds.

There’s one obvious way (at least to me) to do this; Have the loop occur 100 times every second, and on every 1,000th iteration of the loop I could print out the temperature information.

It would probably be smarter to decouple the button polling from the temperature gathering, though.

My button detection code was copied from my UseButtonsAndLEDs assignment, for convenience.

Overall, this assignment wasn’t too difficult. It took a bit of my physics knowledge to work with frequencies for the polling speed, though.