Clock Recipe

Ingredients:

Variables:

hours

minutes

seconds

Constants:

maxhours

maxminutes

maxseconds

Directions:

First off we need to initialize all the variables and constants, to 0 for the trackers, and to certain values for the max ones.

Once those are set up we can enter into a while loop that will always be running in order to simulate the clock running.

Inside the while loop we can start by incrementing the seconds variable.

Then we need to see if the seconds are equal to maxseconds and if so we increment the minutes variable and reset seconds to 0.

When minutes are incremented we then need to check if that is equal to maxminutes, and if so we reset minutes to 0 and increment hours.

Lastly we need to check if hours is equal to maxhours, and if so we reset hours to 0 and leave it at that since this clock doesn’t track days.

Back up in the main level of the while loop we should wait 1 real-time second before starting the while loop again (if that’s what is desired otherwise we can just let it run and it will run extremely fast.)