My solution for my project to make a clock using python is to create an algorithm that increases by 1 second every second, after getting the current time from the onboard clock. I will implement a toggle to change between a 24 hour clock and 12 hour clock. The problem being addressed by this project is can I make a clock that tells time accurately that I like the look of.

Start

       Initialize GUI (using tkinter library)

       Get current time from system's onboard clock

       Display time on GUI

       Every second:

              Increment seconds by 1

              If seconds > 59:

                     Set seconds to 0

                     Increment minutes by 1

              If minutes > 59:

                     Set minutes to 0

                     Increment hours by 1

              If 24-hour format is active:

                     If hours > 23, set hours to 0

              Else (12-hour format is active):

       If hours > 12, set hours to 1

                     Display AM/PM suffix

Update GUI with the new time

If user presses toggle button:

       Switch between 12-hour and 24-hour formats

End