



# Computer Systems

## Week 6

### Overview

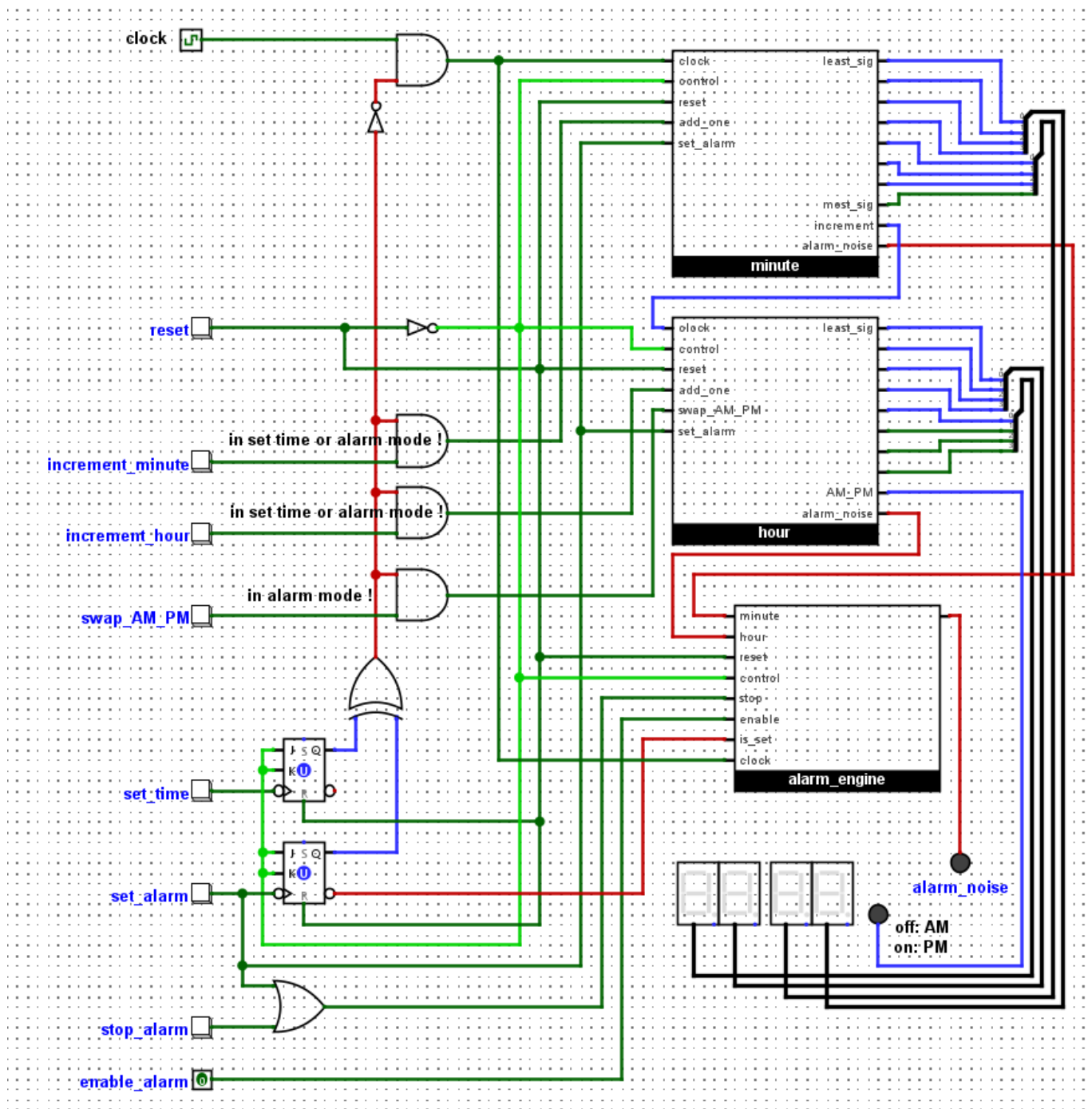
#### Working on your assignment

1. Work on your assignment
2. What is the most challenging component of the assignment ? Be as specific as possible.

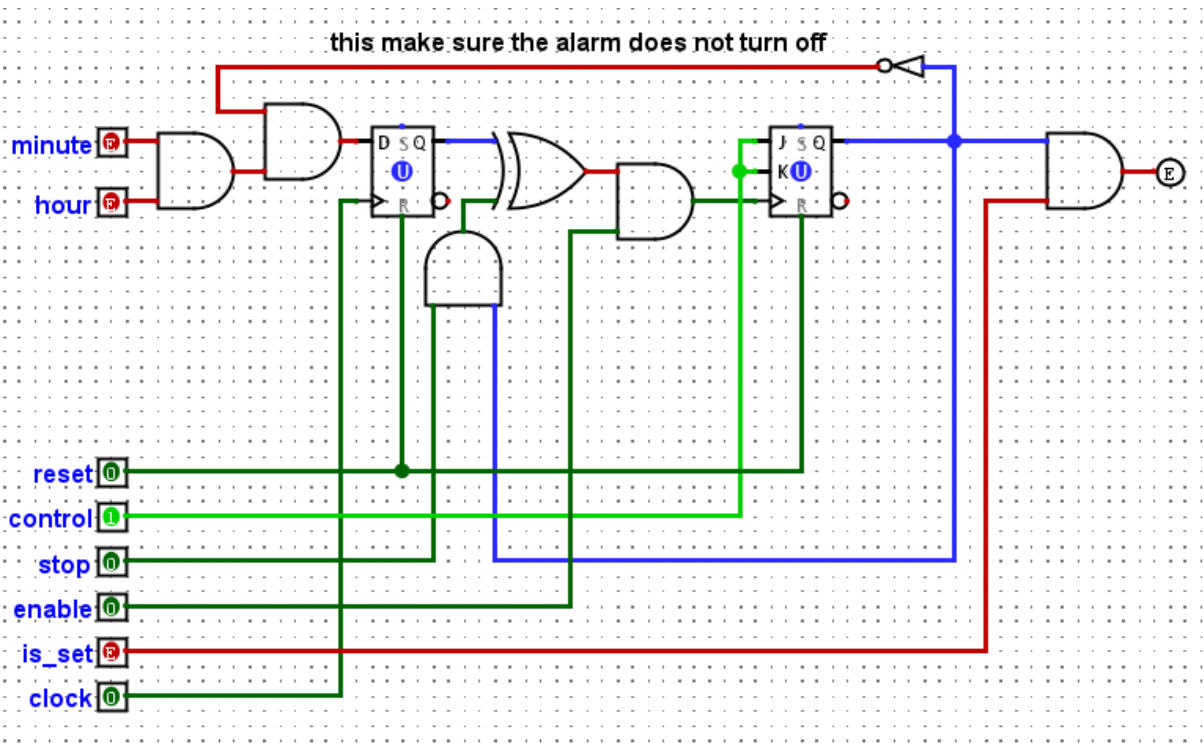
**Ans:** The most challenging part during the assignment is how to make the whole circuit synchronized, or at least prevent unexpected behavior. In the lesson we use the D flip flop as a buffer, however this has a by-effect: the bits travel through the D flip flops AFTER A DELAY, making it a real challenge maintaining all functions to perform precisely in time. Another problem is that the register for the alarm is set to 0000000 which immediately triggers the alarm when the clock starts.

3. Discuss this answer, and your progress, with your lab demonstrator
4. Document your progress so far and plans

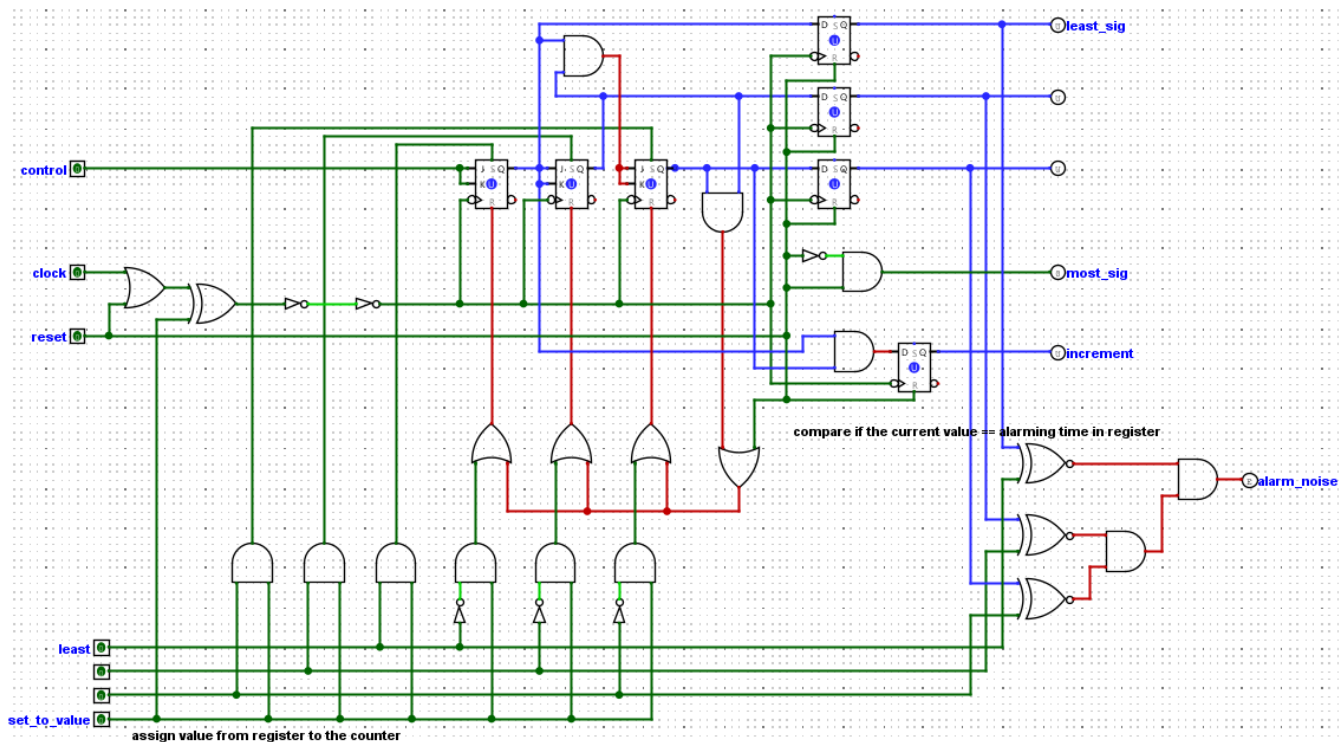
**Export a document of evidence of your progress to date, including images of notes/ screenshots and any other notes.**





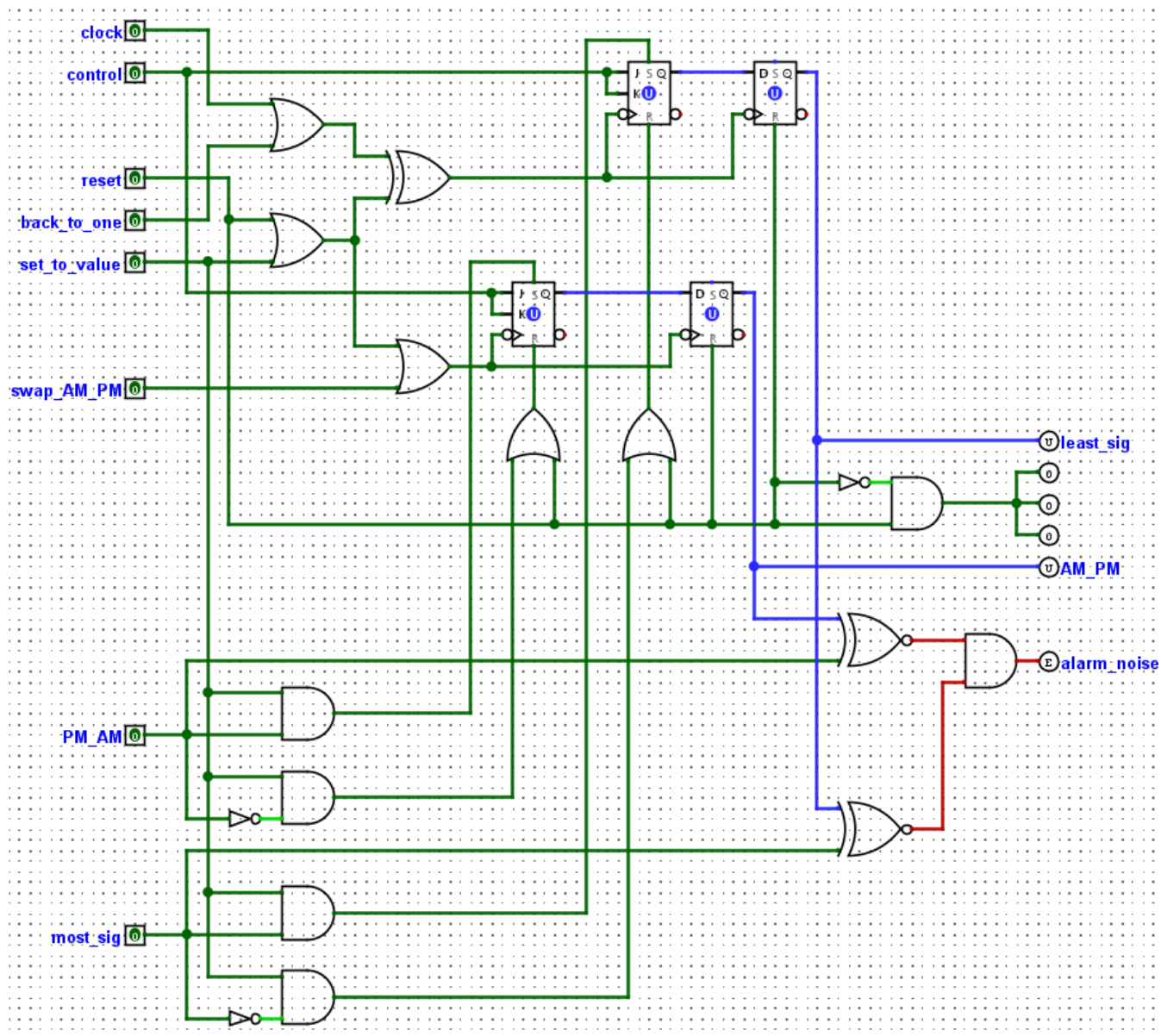


The alarm engine from inside



Mod-6-counter with assigning engine and comparing engine





Hour 'tens' digit counter and AM-PM calculator