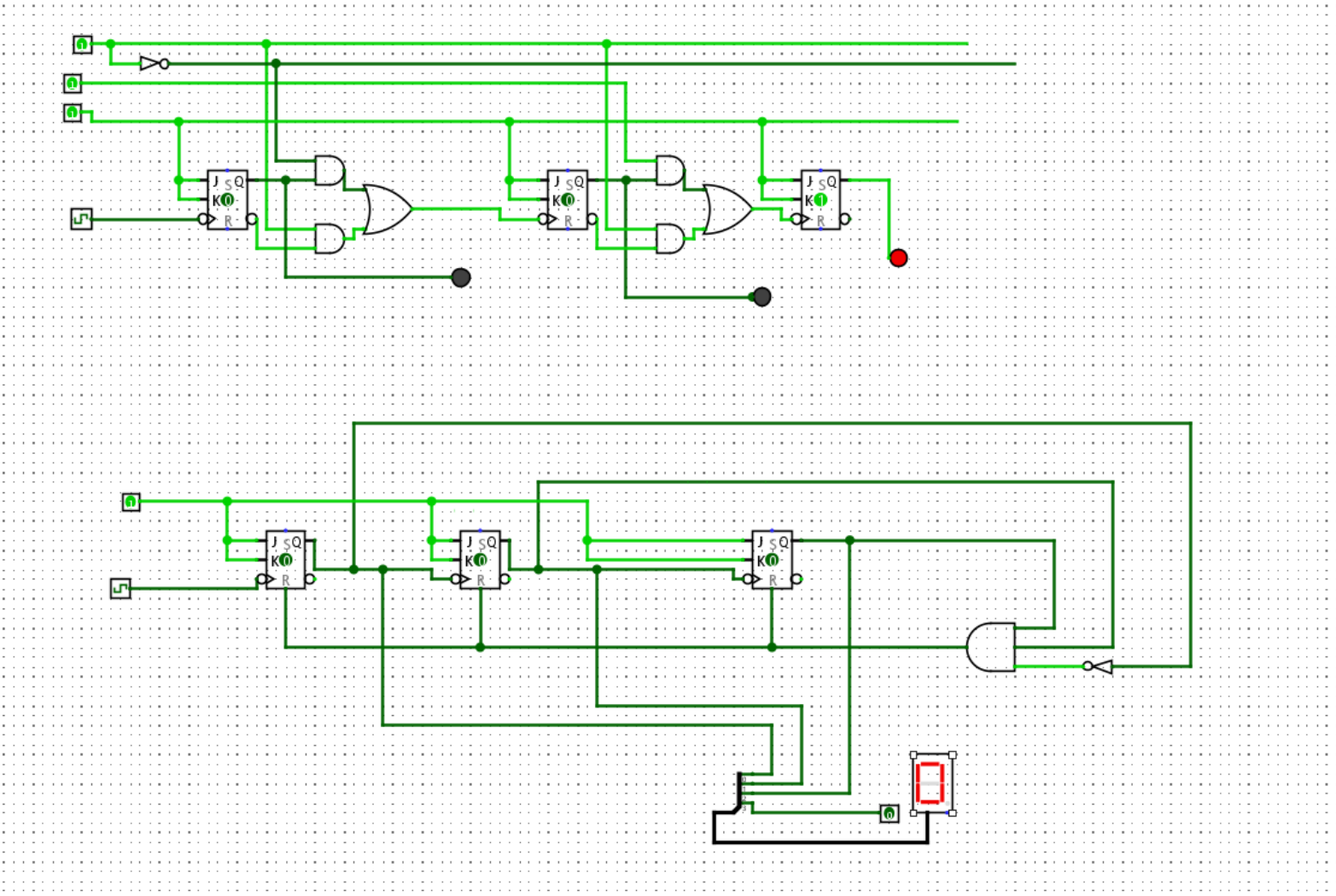
COS10004

Lab 6

2. What is the most challenging component of the assignment ? Be as specific as possible.

Up till now, I am still struggle with the track counting implementation of the music player, which is the equivalent of Stage 3. However, most of the other tasks are done and I only need to figure out how to link the two Hex digit displays together in order to count up to 99.

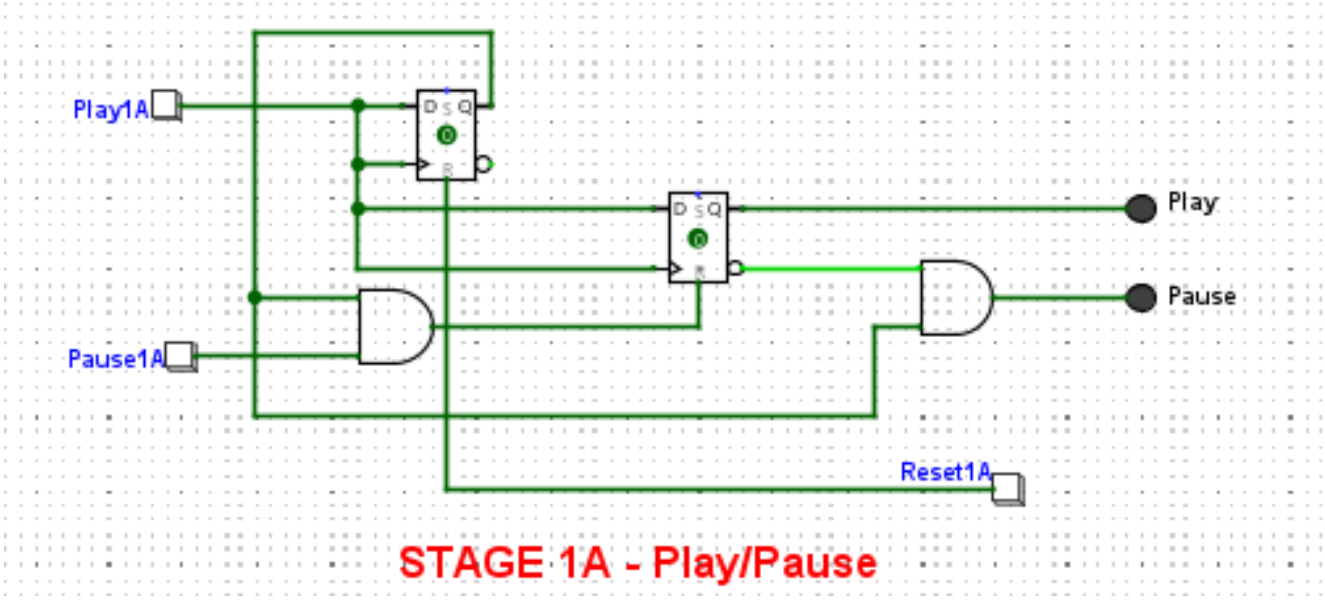


Picture 1: Track counting prototype

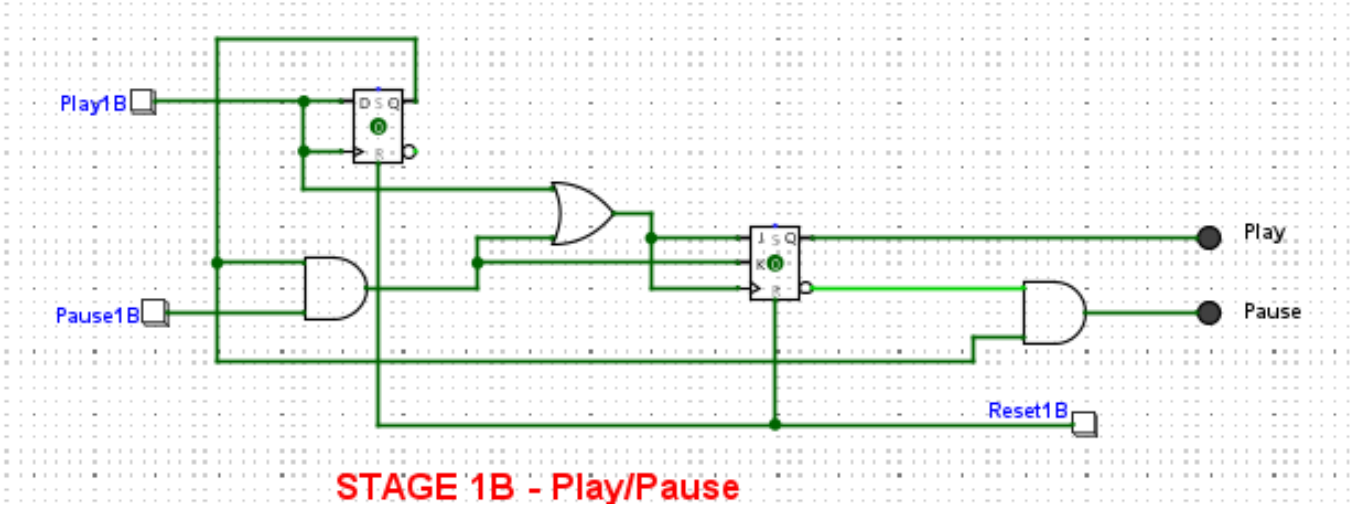
Although it seems fairly silly, I am working on how to count to 99 using 6 JK Flip Flop, as we only need $2^6 + 2^5 + 2^1 + 2^0$ to represent 99. The normal way of creating counting circuit did not work so far, so at the current moment, I am still doing research on YouTube to find a way to fix it. Neso Academy provide a wide variety of digital electronics video so I will stick with it till the problems are solved.

4. Document your progress so far and plans

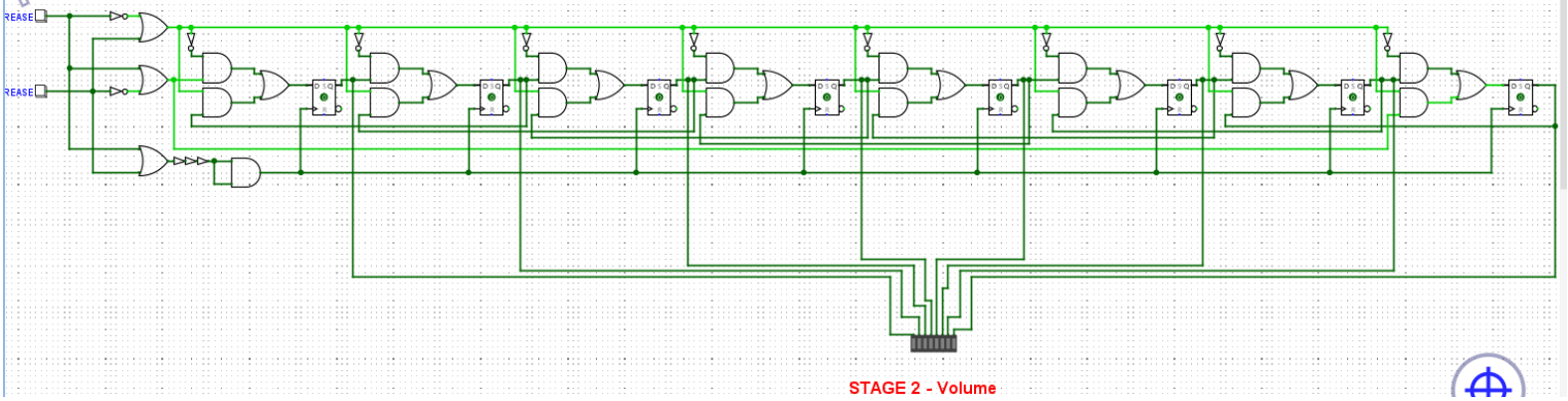
Stage 1 and 2 are fairly easy so it didn't take me much time, however, as stated above, the track counter is confusing me so much. As I still have two days left to complete the assignment, I will spend today and tomorrow solely on researching on how to solve the connection problem between two displays.



Picture 2: Stage 1A



Picture 3: Stage 1B



Picture 4: Stage 2