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Introduction:

We were required to use Logisim to create an alarm clock for this assignment. My computer is equipped with the Logisim program, so I started creating an alarm clock with it.

Step-1: Making Counters for Minutes:

Four j-k flip flops were used to create a ripple counter, and its output was then routed to four D-flip flops so that the outputs could be recorded. Next, I created a splitter with the configuration Bit width in 4 and fan out 4. In the splitter, I serially connected the outputs to the inputs. After that, I attached a hexadecimal display to the splitter. Here, the reset output is 10.