Lab 5 Report: Group 8

Counters

March 30th, 2023 – 5:45pm

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Abstract –

Lab 6 introduces the team to counters by allowing us to simulate counters, modify timers, add timers, and design a random number generator.

Introduction –

Lab 6 introduces the team to counters and their design. We started by simulating two different types of counters, being asynchronous and synchronous. The team then modified our button debounce timer to include a stretch timer. Finally, we designed a pseudo-random number generator using a multiplexor and a simple up counter.