

1 Exercise 1

1.1 Implement a stopwatch (modulo 16) with the arty7 board

The Arty7 board has 4 LEDs that could be used as a display counter (0 -> 15) and at least three buttons that could be used with the following functions:

1. START
2. STOP
3. RESET

Implement a stopwatch able to display seconds (0-> 15) with 4 LEDs

1.1.1 Useful links

1. Arty7 schematic https://reference.digilentinc.com/_media/reference/programmable-logic/arty/arty_sch.pdf
2. Arty7 Master xdc (constraints) <https://github.com/Digilent/digilent-xdc/blob/master/Arty-A7-35-Master.xdc>