

COL215 Hardware Assignment 1

~by Adithya Bijoy and Anish Banerjee

(2021CS10571 and 2021CS10134)

Design Decisions and Lab Work

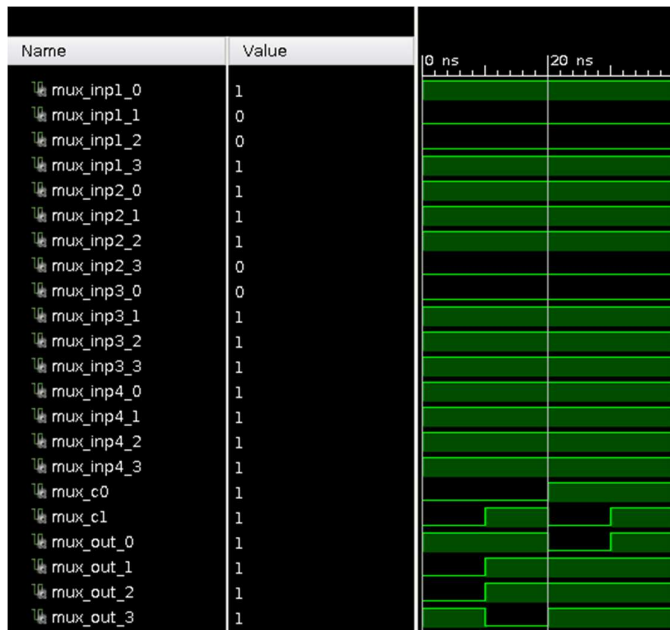
We began by making the seven-segment decoder, MUX and timing circuit in separate modules. Then we imported them as components in a file to combine them and make the final design.

In the lab, we programmed our device and tried some inputs. The snapshots of the outputs obtained have been attached below.

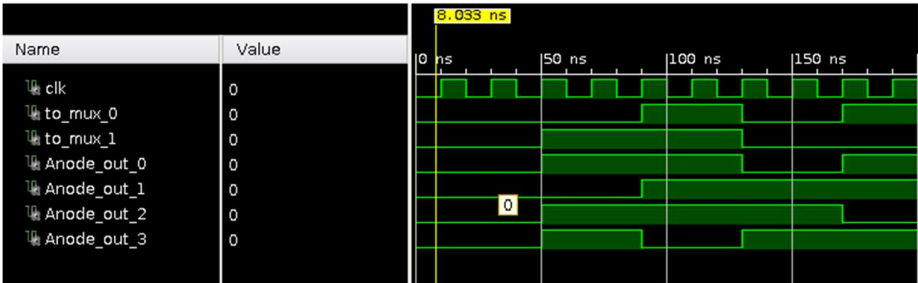
Simulator for Decoder



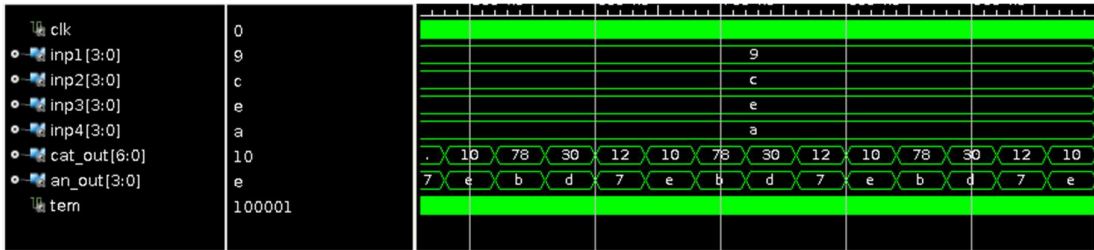
Simulator for MUX



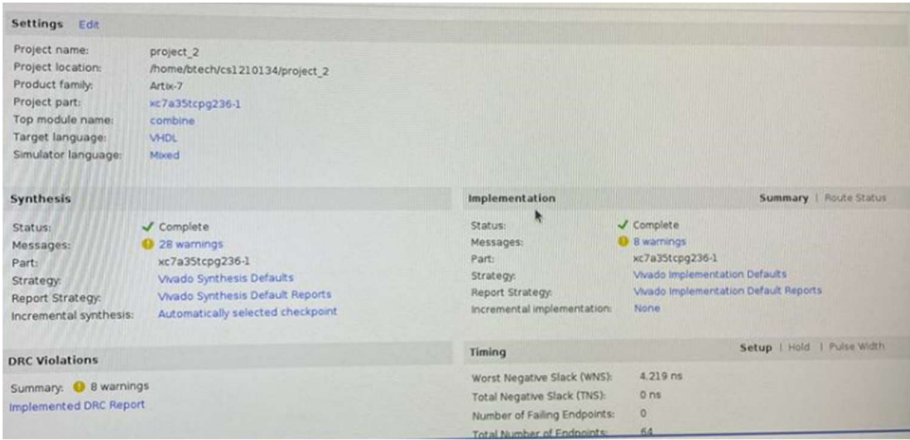
Simulator for Timing Circuit

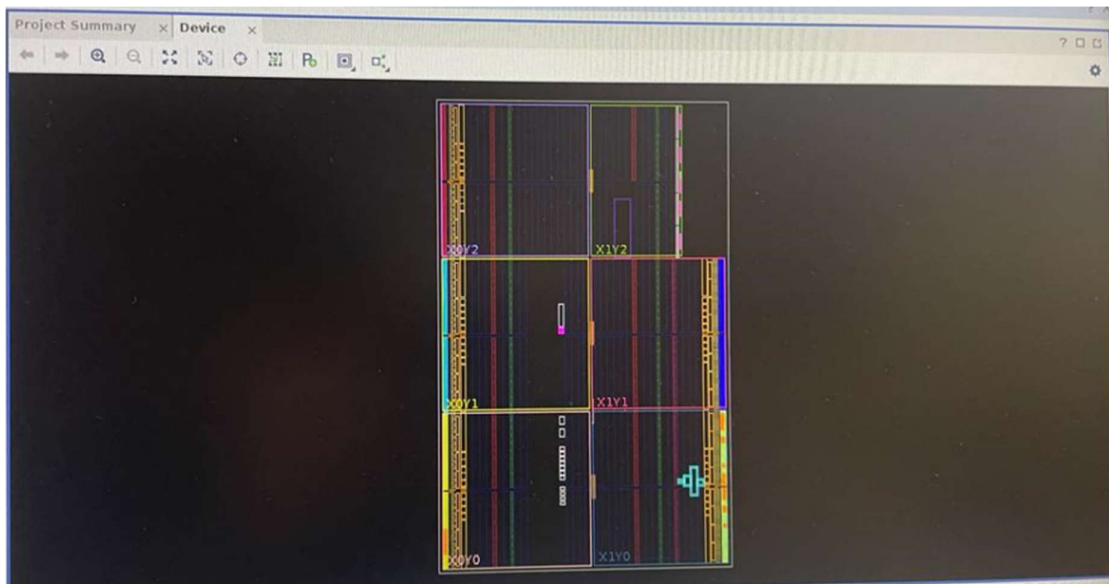


Simulator for combine



Synthesis Report





Note: The Vivado Synthesis Report and Utilization Report have been added in the zip file as separate .txt files

Snapshots of Working of the Implementation

