

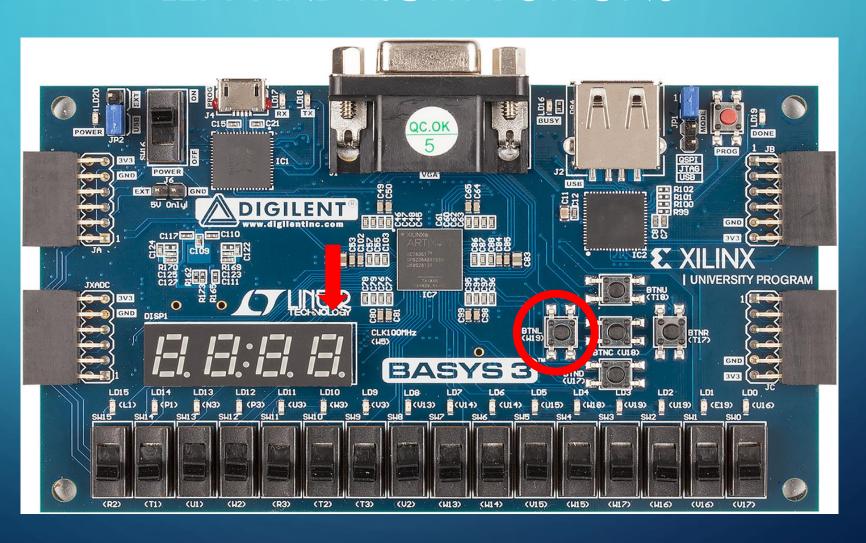
DESIGN PROJECT

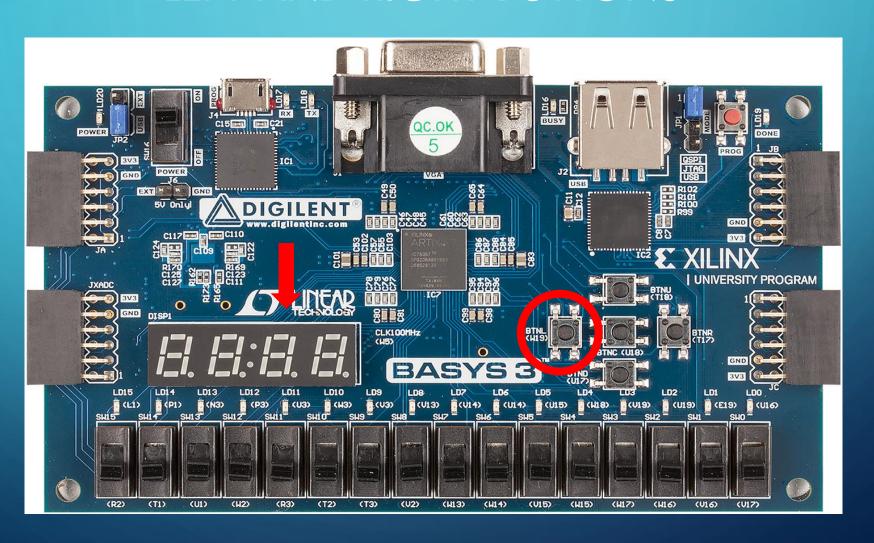
DIGITAL LOGIC DESIGN ECE-2700

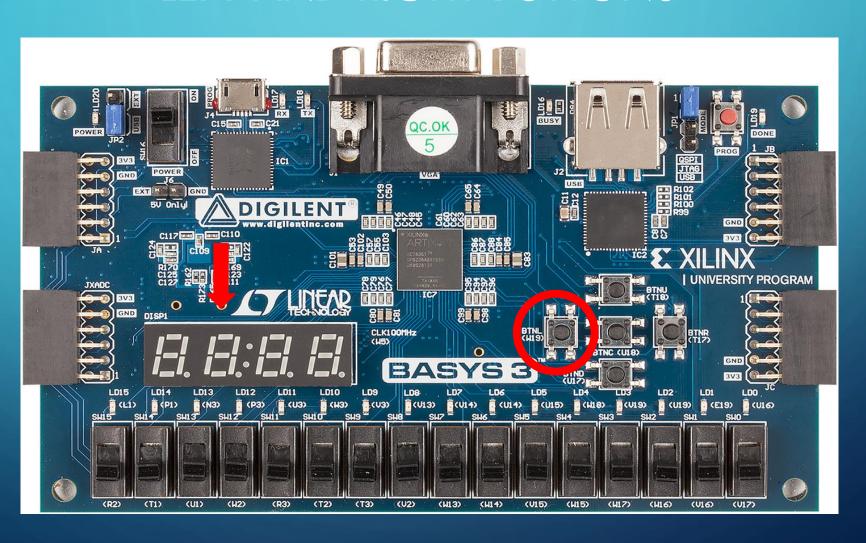
Caleb Bacon
Suha Eshaq
Wissam Isaac
Cody Wilson

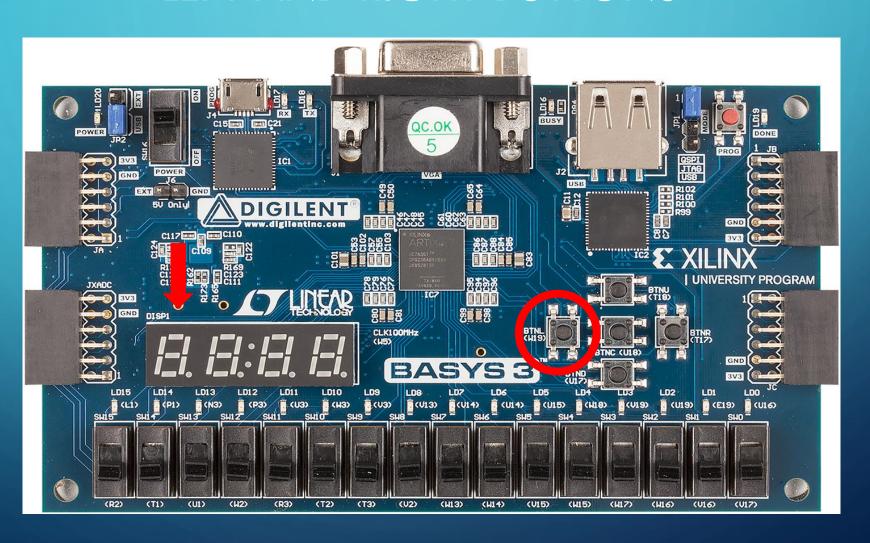
DECIMAL TO BINARY CONVERTER

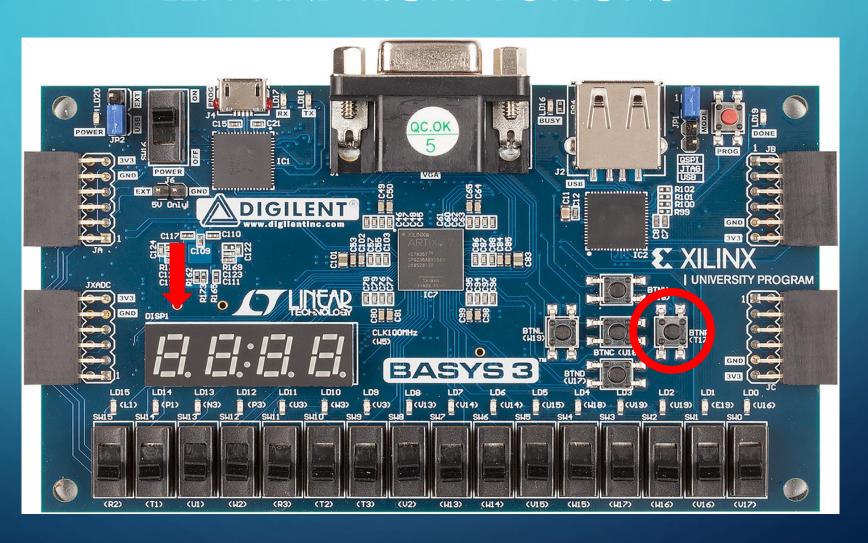
- A user will be able to select any decimal number in the range of 0 9999 that will be displayed on the four-seven segment displays on the Basys 3 board.
- Have the ability to switch between ones, tens, hundreds and thousands place using right and left buttons.
- A user will have a range of 0-9 for each place using up and down button on each seven segment display.
- Finally, the result of binary number will be represented through the LEDs on the Basys 3 board.

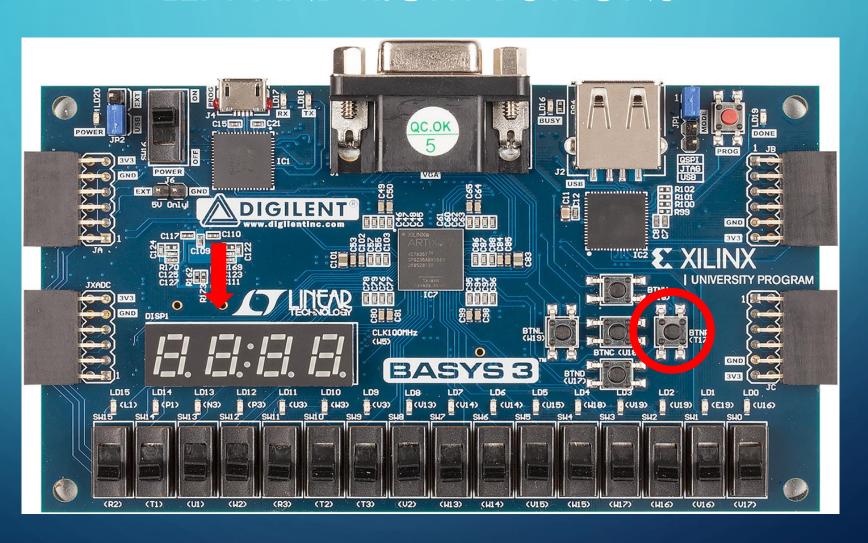


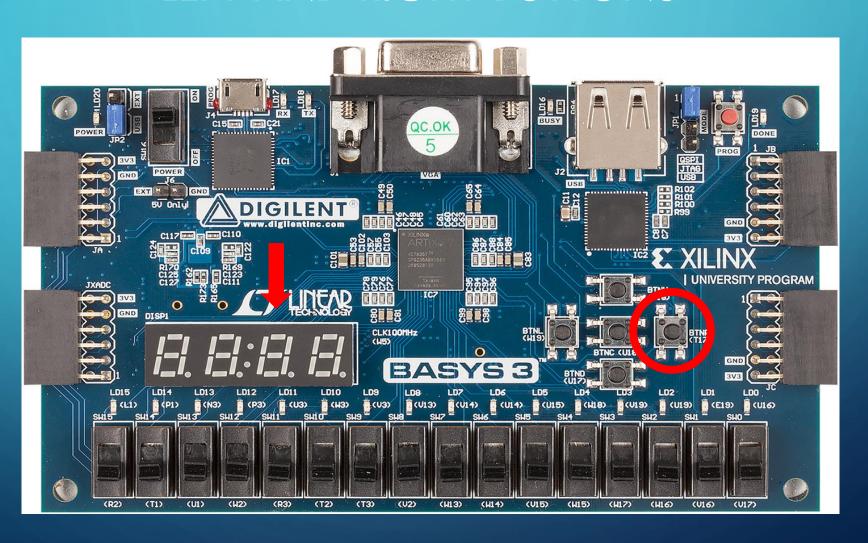


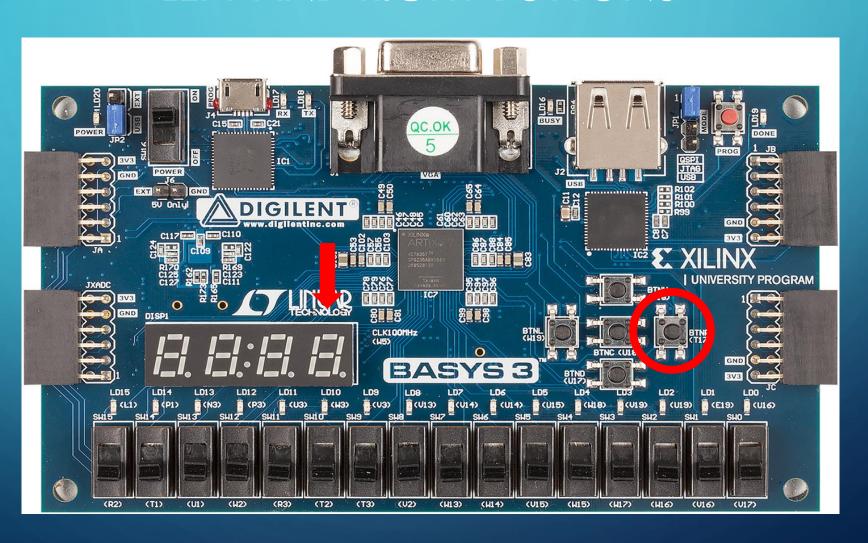


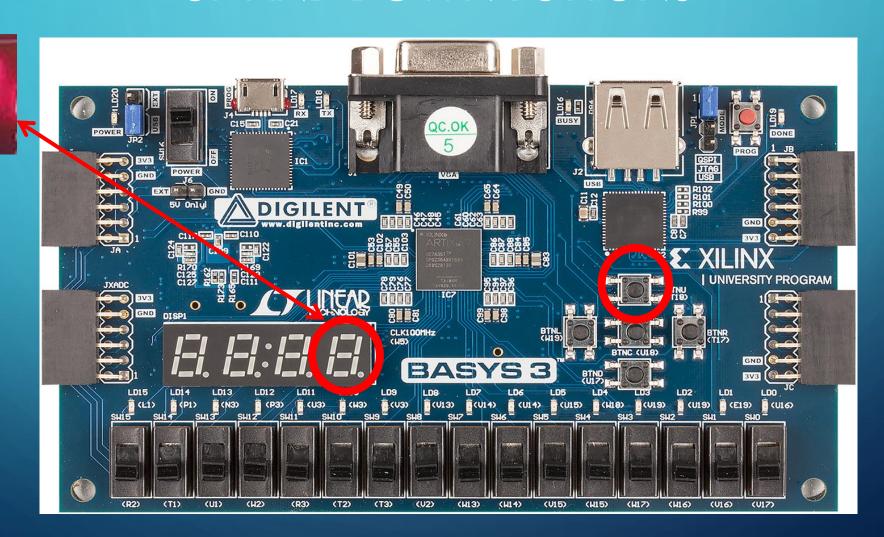


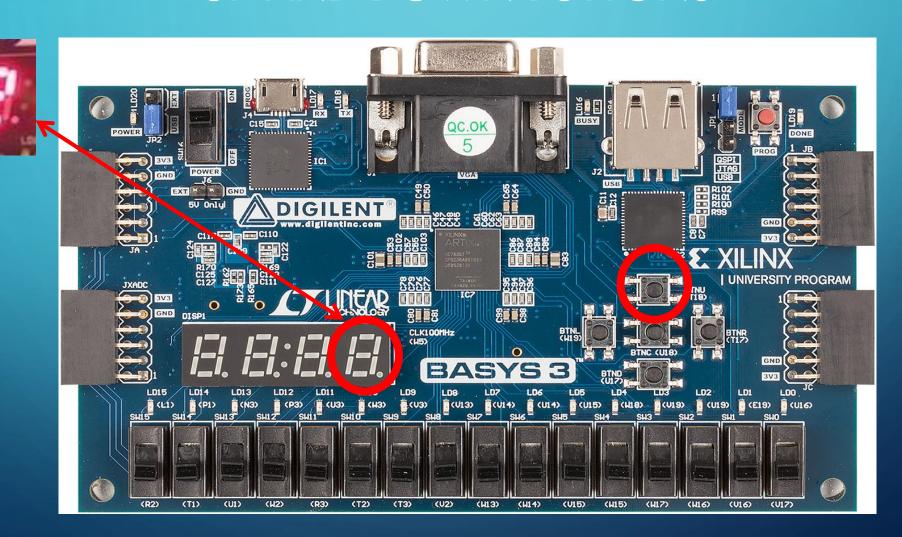


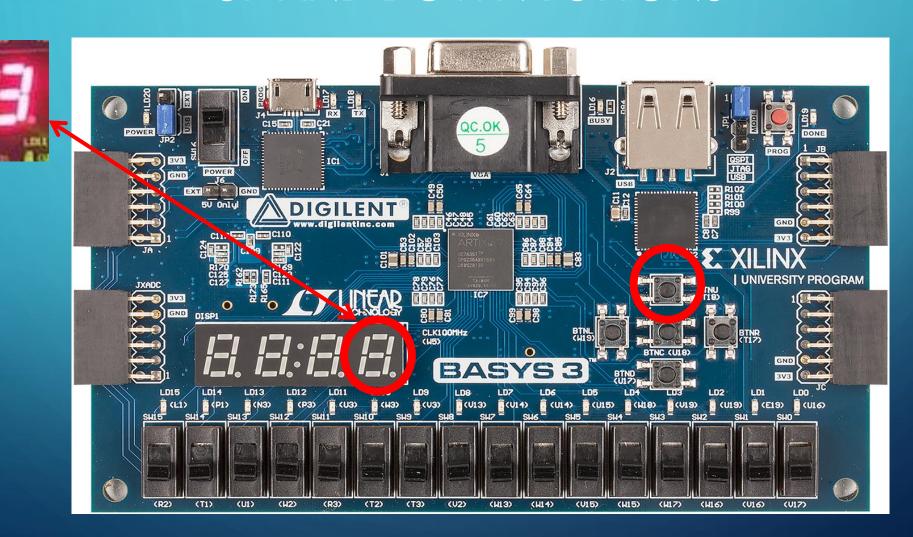


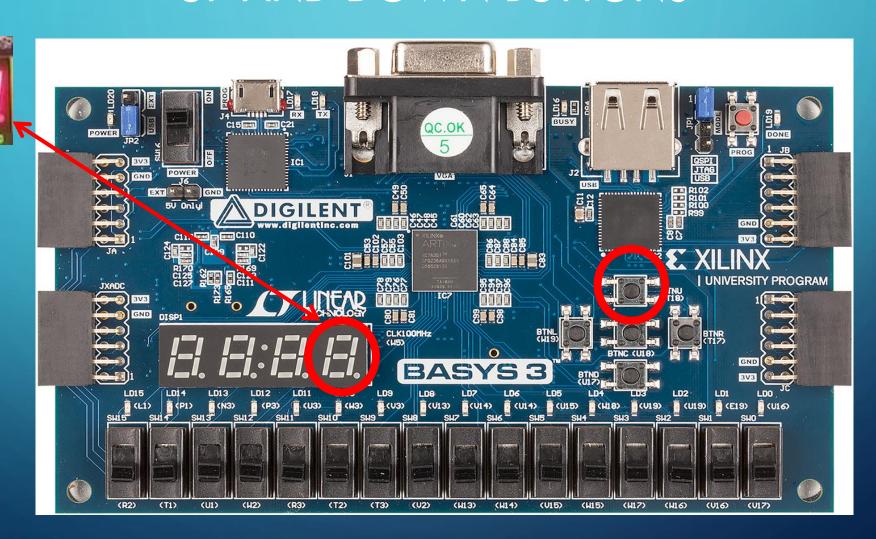


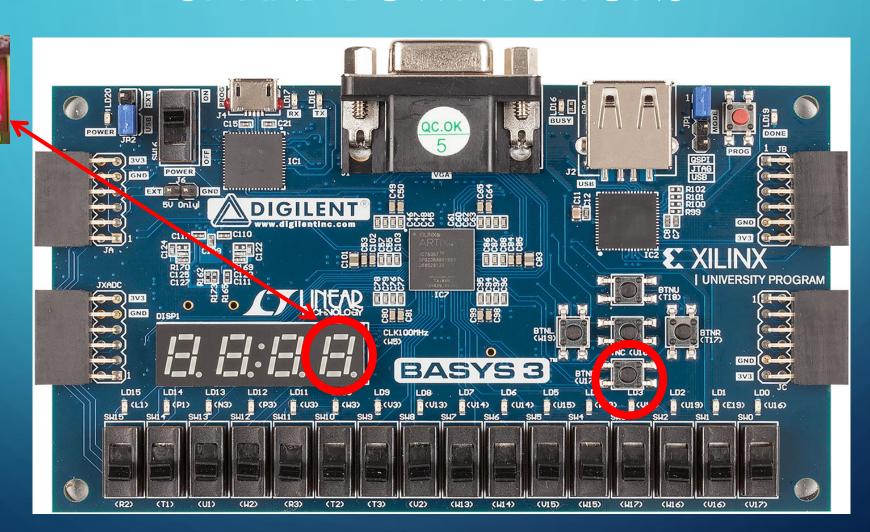


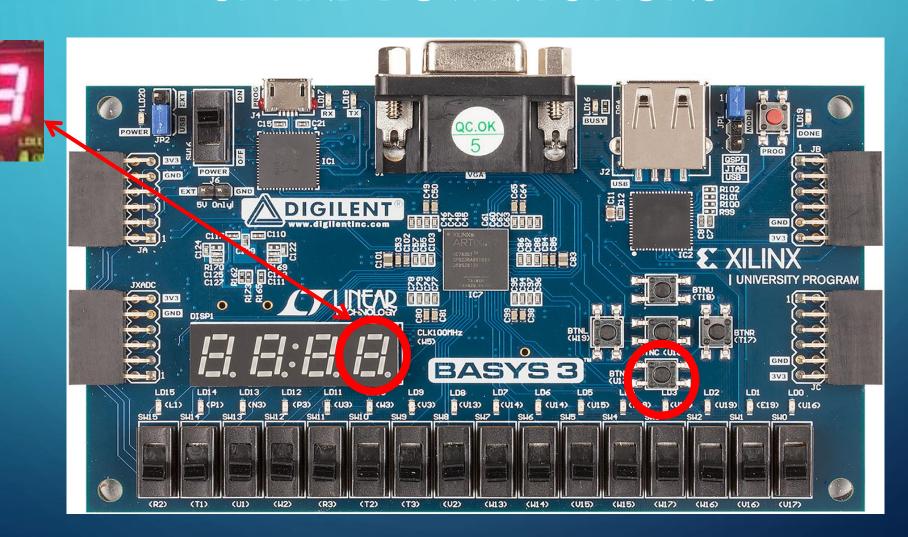


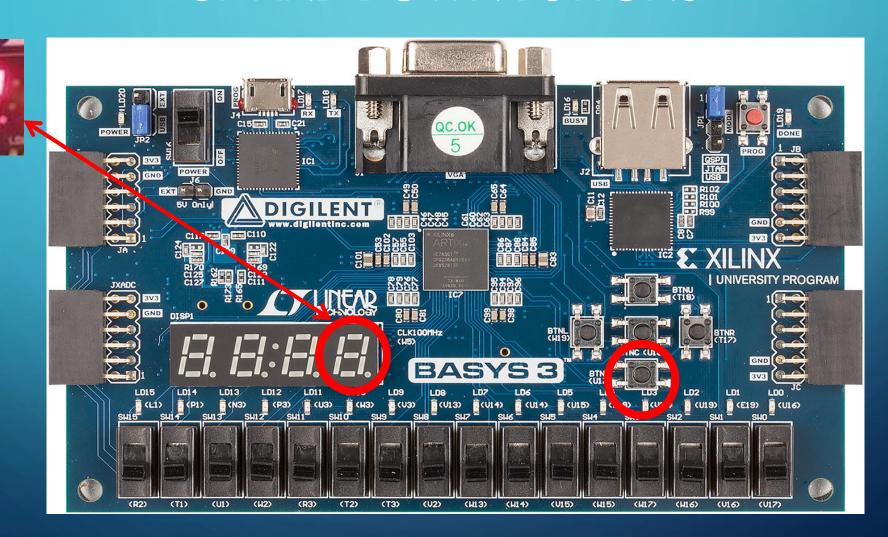


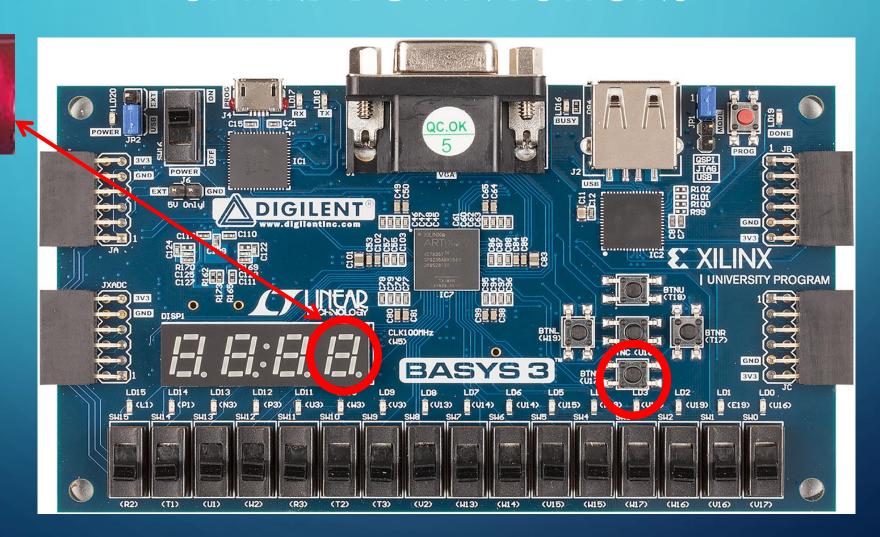




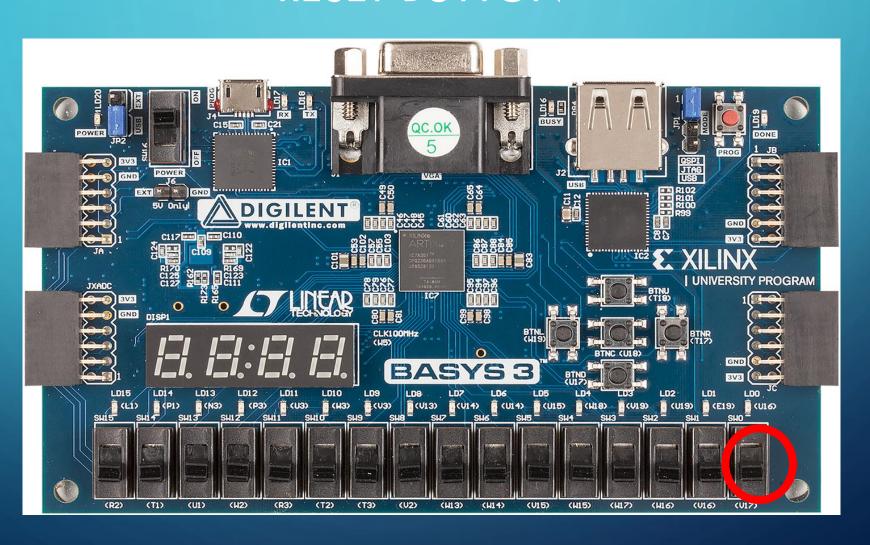




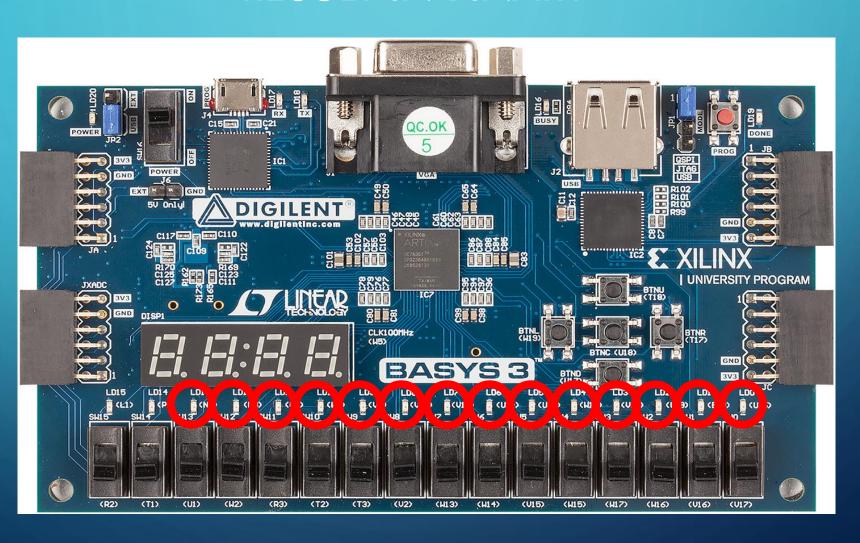




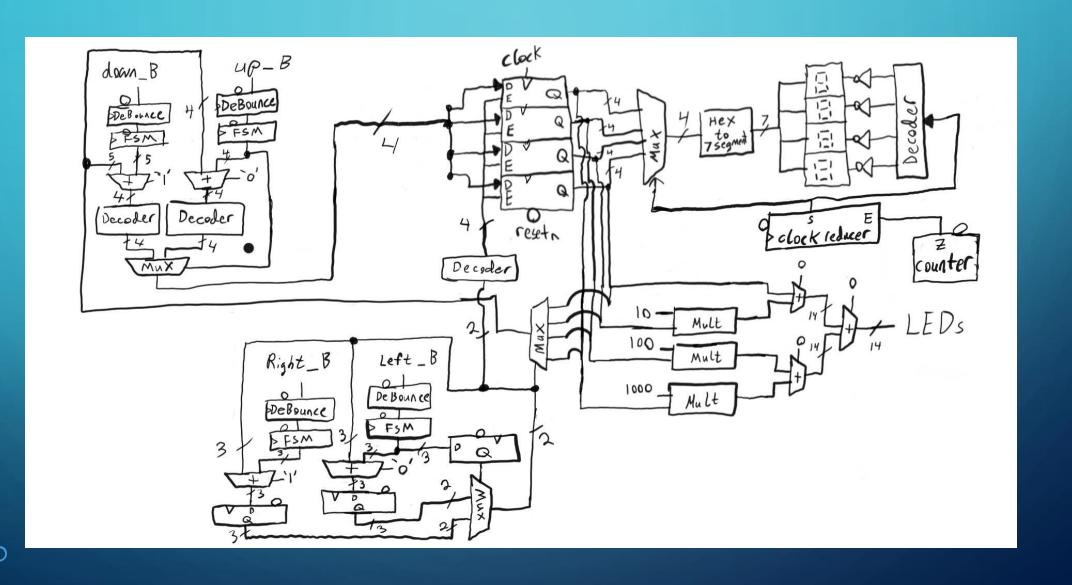
RESET BUTTON



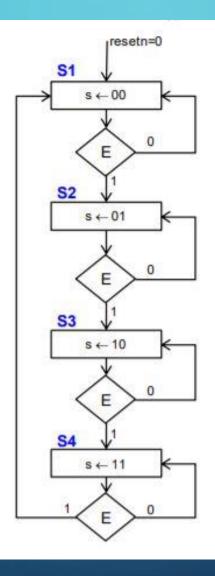
RESULT IN BINARY



BLOCK DIAGRAM



CLOCK REDUCER FSM



BUTTON REJECT FSM

