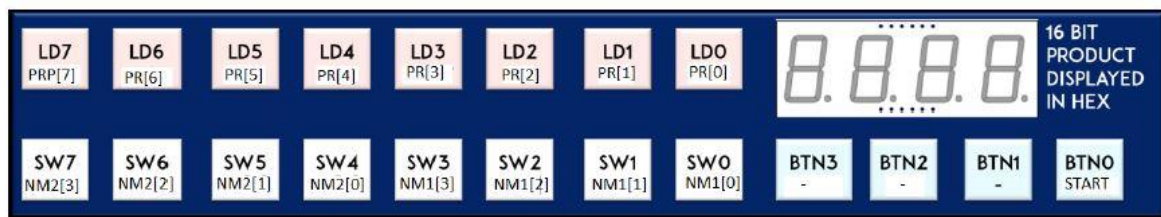
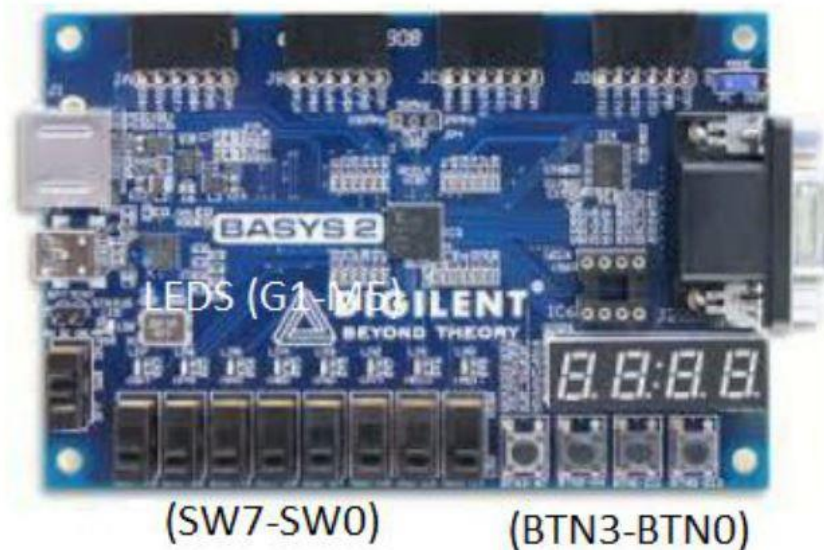


USER MANUAL FOR SQUARE ROOT FINDER

The user manual explains the procedure to use the “Basys2” board



- Load the bit file into your Digilent board.
- Convert the number of which you want to obtain the square root into its decimal form
For example , say $N=20 = 00010100$
- Load the above number into the board using the switches $N[7:0] = SW7:SW0$
Here, $SW7=0, SW6=0, SW5=0, SW4=1, SW3=0, SW2=1, SW1=0, SW0=0$
- Press BTN3 to instruct the board to start the computation process.
- Hold BTN3 in ON until and SSD3 reads 1. This implies that the computation is done.
- Read the output from the LEDs. $Root[7:0] = LED7:LED0$.
Here $LED7=0, LED6=0, LED5=0, LED4=0, LED3=0, LED2=1, LED1=0, LED0=0$;
- Release BTN3 to reset the board.