



Lab1a : LED Controller

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- Design a “LED Controller” .

Light LED by switch with following sequence.

Switch	Led
SW9	LEDG9
SW8	LEDG8
SW7	LEDG7
SW6	LEDG6
SW5	LEDG5
SW4	LEDG4
SW3	LEDG3
SW2	LEDG2
SW1	LEDG1
SW0	LEDG0



Pins-Switches

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Signal Name	FPGA Pin No.	Description
SW[9]	PIN_D2	Slide Switch[9]
SW[8]	PIN_E4	Slide Switch[8]
SW[7]	PIN_E3	Slide Switch[7]
SW[6]	PIN_H7	Slide Switch[6]
SW[5]	PIN_J7	Slide Switch[5]
SW[4]	PIN_G5	Slide Switch[4]
SW[3]	PIN_G4	Slide Switch[3]
SW[2]	PIN_H6	Slide Switch[2]
SW[1]	PIN_H5	Slide Switch[1]
SW[0]	PIN_J6	Slide Switch[0]



Pins-LEDs

3

Signal Name	FPGA Pin No.	Description
LEDG[9]	PIN_B1	LED Green[9]
LEDG[8]	PIN_B2	LED Green[8]
LEDG[7]	PIN_C2	LED Green[7]
LEDG[6]	PIN_C1	LED Green[6]
LEDG[5]	PIN_E1	LED Green[5]
LEDG[4]	PIN_F2	LED Green[4]
LEDG[3]	PIN_H1	LED Green[3]
LEDG[2]	PIN_J3	LED Green[2]
LEDG[1]	PIN_J2	LED Green[1]
LEDG[0]	PIN_J1	LED Green[0]