Using vsd_squadron_minifpga_4 FPGA board Toggle blue only blue LED from the available on-board RGB LED for every 1000ms.

SPECIFICATIONS:

PIN Description	PIN No
Blue	41
Green	40
Red	39

Results:

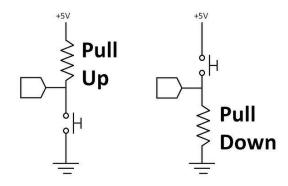
BLUE LED TURNS ON FOR EVERY 1000ms



BLUE LED TURNS OFF FOR EVERY 1000ms



Using vsd_squadron_minifpga_4 FPGA board and the below given pull up or pull down network fig, design a model such that blue light is emitted when the push button is in OFF state else red light must be emitted.



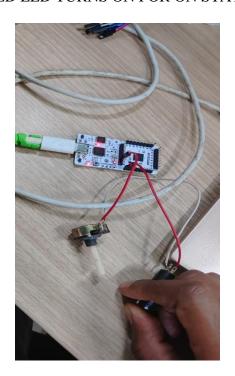
SPECIFICATIONS:

PIN Description
Blue
Red
41
39

Results:

BLUE LED TURNS ON FOR OFF STATE RED LED TURNS ON FOR ON STATE





Using vsd_squadron_minifpga_4 FPGA board print an 8-bit character using UART communication.

Results:

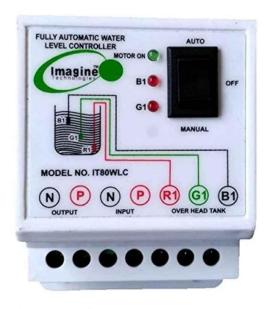


Using vsd_squadron_minifpga_4 FPGA board design an automatic water controller system showing three levels corresponding to red, green, and blue LEDs. Pump should be turned ON when the third input goes down until it fills all the levels.

SPECIFICATIONS:

PIN Description	PIN No
Blue	41
Green	40
Red	39
Input pins	Assuming 27, 28, 31

REFERENCE MODEL:



Using these references and the uploaded code, we can build the system,