Class Activity 5

Possible points: 5

Grading Criteria: Demonstrate your code running on the FPGA board in class on Thursday.

Modify the soda dispenser processor VHDL model to be implemented on the Elbert-V2 board. Use 8 dip switches for the price of soda "price". Use three of the push buttons for "Cin1" for 5 cent coin, "Cin2" for 10 cent coin, and "Cin3" 25 cents coins, simulating the coin sensor detecting the insertion of a coin, pressing the push button once is equivalent to insertion of one coin. Use one of LEDs for simulating "d" the dispensing of a soda.