Lab 3 grading sheet, Spring 2021 1) Name Last	First	EID	Circle professor AC, VT, RY, JV
2) Name Last Use same spelling as listed on Canvas	First	EID	AC, VT, RY, JV
1. Deliverables 20%:			
Upload your main.s file to Canvand upload this file also to Canduring demonstration			2 0 0
 Your names, professor Circuit diagram (hand- Estimated LED voltage Screenshot like showin Switch measurements (LED measurements (T 	drawn or option e and current us ng your debuggi (Table 3.1)	ing the data sheet	ist)
2. Performance 35% (10% OFF f Does it handle correctly all situ		<u> </u>	
3. Adhere to coding standard 5% Good Names have meaning Variables have units in com	•		
Consistent indentation Consistent style		1)	2)
4. Demonstration 40%:			
Von will show the TA ways are		on the cotycl TMA	C100 11 Th- TA

You will show the TA your program operation on the actual TM4C123 board. The TA may look at your data and expect you to understand how the data was collected and how the switch and LEDs work. Also be prepared to explain how your software works and to discuss other ways the problem could have been solved. What is the purpose of the 10k resistor on the switch interface? Why the ULN2003 was not used to interface the LED? i.e., why did we connect the LED directly to the TM4C123? What would the flashing LED "look" like if the frequency were 1kHz (period=1ms)? Why did your calculations change between the simulator and the real board? What operating point (voltage, current) exists when the LED is on? Sketch the approximate current versus voltage curve of the LED. Explain how you use the 470 ohm resistor value to select the operating point of the LED. What is the difference between a positive logic and negative logic interface for the switch or the LED? We may test to see if you can measure voltage, current and/or resistance with your meter (so bring your meter to the demonstration).

Total:		
--------	--	--