				1	displays quantized values read from the ADC	not display quantized values read from the ADC
				the ADC (raw digital conversion results). Explains whether the quantized values appear to be valid.		(raw digital conversion results).
					whether the quantized values appear to be valid.	
Part 2: Calibrating Distance Measurement	Plot quantized value at known distance meaurements and calibrate IR sensor	10				(5 pts) Plots distance vs. quantized values and calibrates the IR sensor. Prints both distance and quantized value to LCD screen. Readings are within 1 cm of actual values and an averaging mechanism was not implemented
Part 3: Visualizing Data	Output data for distance and quantized value to Putty	5		(5 pts) Demonstrates IR/ADC data output in Putty and correctly graphs distance and quantization value. Calibration methods are justified with a detailed description of how choices were made for calibration.	(3 pts) Demonstrates IR/ADC data output in Putty but does not graph distance and quantization values.	
Code Quality		5		(5 pts) Code is fully commented, follows company coding standards, all functions are called from main.	(4 pts) Code is mostly commented and all functions are called from main.	(3 pts) Code is sparsely commented but all functions are called from main.
Bonus: Quick Callibration		3		(3 pts) Efficiently perform a recalibration of the IR sensor measurement using novel implementation	(2 pts) Efficiently perform a recalibration of the IR sensor measurement using suggested	
-	Total Points	30				
	Bonus Points	3				
	Evaluator (TA)	Evaluation Date	Total Points	Lab Partner Names	Lab Section	

LAB 6			
Lab Evaluation Rubric			
Criteria for Parts of Lab			
Prelab: ADC Registers			
Part 1: Initialize ADC and Display Quantized Values	(0 pts) Program does not compile.		
Part 2: Calibrating Distance Measurement	(2 pts) Plots distance vs. quantized values and calibrates the IR sensor. Prints both distance and quantized value to LCD screen. Readings are not within 1 cm of actual values and an averaging mechanism was not implemented		
Part 3: Visualizing Data			
Code Quality	(2 pts) Code is mostly commented but functions are written in main or are not reusable.	(1 pt) Code is sparsely commented but functions are written in main or are not reusable.	(0 pts) Little or no effort shown in commenting or developing reusable code.
Bonus: Quick Callibration			