ECEN 5613 Fall 2019

Embedded System Design Lab #1 Signoff Sheet – Part 1 Elements

Week #1 8/26/2019

You will need to obtain the signature of your TA on the following items in order to receive credit.

The Part 1 Elements of Lab #1 should be completed and signed off by Friday, Sept. 6, 2019 in order to give you time to complete the Part 2 Elements upon receipt of your parts kit. Both signoffs are due by Friday, Sept. 20, 2019. You need to submit both of your signoff sheets and other required elements by 11:59pm Saturday, Sept. 21, 2019. Labs completed after the signature due date or submitted after the submission due date will usually receive grade reductions, but there is leniency on Lab #1.

Print your name below and then demonstrate your working hardware/firmware in order to obtain the necessary signatures. All items must be completed to get a signature, but partial credit is given for incomplete labs. Receiving a signature on this signoff sheet does not mean that your work is eligible for any particular grade; it merely indicates that you have completed the work at an acceptable level.

Student Name: HARSH RA	ATHORI	ε			
Checklist					
Student demonstrates detailed know data memory, using breakpoints, si Student assembly program works of Student demonstrates detailed know	ingle stepping	g, uses /over	lay option, etc	.)	
Student Answers to Lab Questions					
1. How many bytes of code space d (Show how you arrived at your an Code Size? 57 bytes	loes your proswer.)	ogram requi	re?		
2. How long did your program tak clock and include the instruction label. Show the TA your detailed Execution Time?	ns executed f d calculation	rom the beg	inning until v	ou reach the I	ENDLOOP
			Oce	D	9/9/19
Instructor/TA Comments:			TA signatu	re and date	
FOR INSTRUCTOR USE ONLY	Not Applicable	Poor/Not Complete	Meets Requirements	Exceeds Requirements	Outstanding
SPLD code Assembly Language Code Style Required Elements functionality Sign-off done without excessive retries Student understanding and skills			याज्यस्य		
Overall Demo Quality			\square		
Comments: NOT FAMILIAR W SOME CONFUSION ACCEPTABLE	THEMLY SONWING	SZ OPERA	TION ON UST A SEOF EUM	ATTEMPT, WA	rever Notworking

NOTE: This submission sheet should be the top/first sheet of your submission.

Submission Sheet 1

Ox7F 127 25A FE 0x19 25 50 32 0x02 2 1 09

FICA 1 L2: MOV 204A 2 3CL2 2 MOV 304H0H3 STMP L3 2 STMP 2 C3: XCH 1 L4: MOV 3 T2 2 STMP 2 XCH 1 SJMP 2 L5: SUBB 1 L6: 3C 2 SJMP 2 SJMP 2	
3c L2 2 MOV30HHOH3 STMP L3 2 STMP 2 C3: XCH 14: MOV 3 T2 2 STMP 2 XCH SJMP 2 L5: SUBB L6; 3c 2	
SJMP L3 2 SJMP 2 C3: XU 1 14: MOV 3 J2 2 SJMP 2 XU 1 SJMP 2 L5: SUBB 1 L6: JC 2	
72 2 SIMP 2 KCH 1 SIMP 2 L5: SUBB 1 L6; 3c 2	
XCH 1 SJMP 2 L5: SUBB 1 L6; 3c 2	
SJMP 2 L5: SUBB 1 L6; JC 2	
L5: SUBB 1 L6; 3c 2	
L7: ADO 1 L8: INCR,	1
MOV 2 SIMP 2	2
mov 2	
Mov 3	
SJMP 2	
L9: SJMP19 2	
Byte Size = 57 bytes load	de c

Oscillator Period = 12 (Martine gule) Clock frequency = 11.0592 MHZ No of times instructions executed = 182 Time taken to execute program 15 × 12 clk × 182 ments
11.0592 × 106 clk 1 mach Program = 1.975 X10-45 = 197.5 US 1 machine cycle takes = 12 = 1.085 Ms 11.0592 XID6