Microprocessors lab ECSE426 Lab 1 Demo sheet

		Group No:	
Student Name:	Student ID:	Grade:	/6
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1. Demonstrate correct func	etionality of the code as follows:	(1.	.5 marks)
	nbly Viterbi function matches the TA output	,	0.5 mark)
• The outputs of the C Vit	terbi function matches the TA outputs	(0	0.25 mark)
	one in the lab sheet. No dynamic memooses all)	ry allocation or un	
Assembly subroutine act within C	lheres to the calling convention and gives	=	alled from 25 marks)
Correct test benches and	l initialization subroutines (in assembly and	l C) (0.2	25 marks)
2. Coding requirements and Grades awarded based of top 5 groups get 75% of to	n best results between groups. (Top 5 grou	·	5 marks) ck, second
	ably Viterbi function for one observation is erbi function for one observation is	•	(1 marks)
		(0.	75 marks)

	• Efficient use of registers, number of Rx registers used (), number of S2	x registers() (0.5 mark)
	• Efficient and correct use of either data or stack memory	(0.25 mark)
3.	C and assembly implementations discussion. Students should explain the coeinstruction choices. Students must answer any question the TA asks related to Start-up files / Assembly functions / stack or data memory / calling convention / Assembly implementation (Individual not group mark)	o project structure
	• Student 1	(1.5 marks)
	• Student 2	(1.5 marks)
	• Student 3	(1.5 marks)
4.	Code documentation. Use of clear functional comments in both assembly and C	(0.5 mark)
Bo	onus	(0.5 mark)
	1. Re-implementation of code in CMSIS-DSP and understanding the API at using these functions	nd rationale behind (0.25 mark)
	using these functions	(0.23 mark)
	2. Correct output of the CMSIS DSP for the test vector that matches the non-D	SP implementation (0.25 mark)