HW1 Rubric

5+5 = 10 marks

Rubric - (10 marks)

Due: 11:55PM 20-Feb-2020

1	Run AES Cipher on FPGA.	5		
1.1	Making verified synthesizable C code. (Submit synthesis report from Vivado HLS)		1	
1.2	Generate Bit-stream for FPGA. (submit project summary from vivado)		1	
1.3	Check the data for default input and key. (submit screenshot)		1	
1.4	Try two different inputs and two different keys (4 combinations) on FPGA implementation. (submit screenshot of UART input/output)		1	
1.5	Apply your N# as input plaintext "N-number, N-number and key = "000". (Submit screenshot of UART input/output;) If you N# is N12345678, input is "12 34 56 78 12 34 56 78" (In Hex)		1	
2	Run AES InvCipher on FPGA.	5		
2.1	Making verified synthesizable C code. (Submit synthesis report from Vivado HLS)		1	
2.2	Generate Bit-stream for FPGA. (submit project summary from vivado)		1	
2.3	Check the data for default input and key. (submit screenshot)		1	
2.4	Try two different inputs and two different keys (4 combinations) on FPGA implementation. (submit screenshot of UART input/output)		1	
2.5	Apply your N# as input plaintext "N-number, N-number and key = "000". (Submit screenshot of UART input/output;) If you N# is N12345678, input is "12 34 56 78 12 34 56 78" (In Hex)		1	
3	Prepare a video demonstrating your module operating on the FPGA within input/output using UART load a new plaintext and key and then trigger encryption 2 minutes max.	5		
	Total:	15		