16.317: Microprocessor Systems Design IFall 2015

Lecture 7: Key Questions September 18, 2015

1.	Describe the x86 flags.
2	Describe the operation of the ADD, ADC, and INC instructions.
۷.	Describe the operation of the ADD, ADC, and five instructions.
3.	Describe the operation of the SUB, SBB, DEC, and NEG instructions.

- 4. Given the following initial state:
 - AX = 1234H
 - BL = ABH
 - Memory location SUM = 00CDH

Show the results of each step of the following instruction sequence. Be sure to track the carry flag throughout the sequence:

ADD AX, [SUM] ADC BL, 05H NEG BL SUB AX, 12H INC WORD PTR [SUM]