Quiz 1 ***(CSE331L.1 – Asif Ahmed Neloy\_Fall’20)***

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*Time 20 minutes, Marks 10 (You need to answer all questions).*

1. **Explain DAA and write the asm code using the following example –**

**AL 27H and AL 35H**

**ANS: DAA stands for the decimal adjust after BCD addition instruct ion. It makes sure that the result of adding two BCD numbers are also a valid BCD number. It can update flags.**

**MOV AL, 27H**

**ADD AL, 35H**

**DAA**

**2.** Explain the “**CMP**” and “**Test**” instruction from the following example. Also, write which one of these affect the flag register and why.

**CMP AL, 000h**

**TEST AL, 001h**

**Ans:**

**CMP (CMP Destination, Source) stands for the compare instruction. It compares the source with destination.**

**TEST (TEST Destination, Source) is used to AND the source and destination, but values are not stored anywhere. It simply updates flags based on the result.**

**CMP AL, 000h will not update any flag.**

**TEST AL, 001h will affect flag register PF,SF,ZF as a result of the AND operation**

**End**