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-** The DAA instruction allows addition of numbers. This instruction uses the AL register as the source and the destination. It does not require an operand.

In the above example 27 and 35 is being added. Both the numbers are loaded onto the AL register at first. The expected answer finally in decimal would be 62 and would be stored in the AL register.

**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-** The CMP function compares between two values without affecting either value. Here, AL is being compared to 000h without altering either value. The difference is not stored anywhere. However, the flag register *is* updated to 0 if the two values are equal.

The TEST function is used to perform a bit by bit AND operation on two values. It sets the flag register to 0 when the operation result is 0.

**End**