**Assembly Sec A Lab 5 Fall 2017**

**TASK 1**

You need to perform bit by bit comparison of two words. If the two words are equal then set carry flag otherwise, unset carry flag, at the end of program value of two words should retain.

**TASK 2**

Write an assembly program that checks whether a number BX in binary form has two adjacent 1’s or not.

If a number in binary form does not have any adjacent 1’s, then set AX=1 else set Ax=0.

For example: if Bx has 1010100001010000b, then set AX=1. However, if BX has 000110101010010b

then set AX=0

**TASK 3**

Write an assembly program that generate sequence according to value in AX. If AX = 6 then following sequence should store in memory.

100000

010000

001000

000100

000010

000001

Auqabi Rooh Jab Baidar Hoti Hai Jawanon Mein  
Nazar Ati Hai Iss Ko Apni Manzil Asmanon Mein

(Dr Allama Iqbal)