1. One’s Complement of a 16-Bit Number:

**Objective:** To find the one’s complement of the data in register AX and store the result at 1400.

Input Data: \((AX) = 0001\ 0010\ 0011\ 0100 = 1234\)
Result: \([1400] = 1110\ 1101\ 1100\ 1011 = EDCB\)

2. Masking Bits

**Objective:**
1. To clear 8 selected bits of the data in register AX and store the result at (BX),
2. To set 4 selected bits of the data in register (BX) and store the result at (CX)

Input Data: \((AX) = FFFF\)
Result: \((AX) = FFFF\)
\(\text{(BX)} = F00F\)
\(\text{(CX)} = FF0F\)

P.S.: Write a report and send your lab work and report to compeng.com325@gmail.com before 09.10.2013 23:59.