

**Name:**

**Id#**

**COE 205, Term 022  
Computer Organization & Assembly Programming**

**Quiz# 5**

Date: Sunday, Apr. 27, 2003

**Q1.** Based only on logic instructions, do each of the following:

- a. Convert the decimal digit (0-9) stored in register AL to its corresponding character. Note that the ASCII code of '0'=30h.
  
  
  
  
  
  
  
  
  
  
- b. Check if the number stored in register AL is even or odd.
  
  
  
  
  
  
  
  
  
  
- c. Convert a lower case character in AL to upper case and upper case character to lower case.

**Q2.** Write an assembly program to multiply the signed content of register AL by 48.5 based on shift and addition/subtraction instructions using the smallest number of instructions possible.