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COE 205, Term 023
Computer Organization & Assembly Programming

Quiz# 5

Date: Sunday, August 3, 2003

Q1. Write an assembly program to encrypt the ASCII code of a character in register AL by swapping the bits $AL_2AL_1AL_0$ with the bits $AL_5AL_4AL_3$. For example, suppose that $AL=01011110$, your code should change the content of AL to 01110011.

Q2. Write an assembly program to multiply the signed content of register AL by 19.25 based on shift and addition/subtraction instructions using the smallest number of instructions possible.