Name: **Id#**

COE 205, Term 081
Computer Organization & Assembly Programming
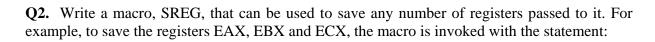## Quiz# 5

Date: Tuesday, Jan. 5, 2010

Q1. Write a macro, **DISPSUM,** that receives three constant parameters representing the address of an array, the number of elements in the array and the type of elements in the array. The macro should compute the sum of the elements in the array and display the sum. The macro should preserve all the used registers. Then, use the macro to display the sum of the following three arrays:

    Array1 Byte 1, 2, 3, 4, 5

    Array2 Word 6, 7, 8, 9

    Array3 DWORD 10, 11, 12, 13, 14, 15

Q2. Write a macro, SREG, that can be used to save any number of registers passed to it. For example, to save the registers EAX, EBX and ECX, the macro is invoked with the statement:

```
SREG < EAX, EBX, ECI>
```