COE 205, Term 032

Computer Organization & Assembly Programming

Quiz# 6

Date: Tuesday, May 4, 2004

Q1. Write a macro, **BDREG**, to display the binary content of a register. Assume that name of the register and the number of bits in a register are passed as macro parameters. Then, use the macro to display the binary content of register CX.

```
.model small
.stack 100h
BDREG MACRO reg, size
        local next, mysize
        JMP Next
 mysize DB size

Next:
        ROL reg, 1

        PUSH AX
        PUSH DX
        MOV AH, 2
        MOV DL, '0'
        ADC DL, 0
        INT 21H

        POP DX
        POP AX

        DEC mysize
        JNZ Next


      ENDM
.code
.startup

; to display the CX register the following macro invocation is
used

        MOV CX, 10
        BDREG CX, 16

.exit
END
```