**;Convert the problem no 4 for the 16-bit numbers.**

**.MODEL SMALL**

**.DATA**

**.CODE**

**MOV DX,0000H**

**MOV BX,0200H**

**MOV CL,00H**

**MOV [BX],08H ;Put your 1st number LSB here**

**MOV [BX+01H],0DH ;Put your 1st number MSB here**

**MOV [BX+02H],62H ;Put your 2nd number LSB here**

**MOV [BX+03H],05H ;Put your 2nd number MSB here**

**MOV [BX+04],08H ;Put your 3rd number LSB here**

**MOV [BX+05H],0BH ;Put your 3rd number MSB here**

**MOV [BX+06H],8DH ;Put your 4th number LSB here**

**MOV [BX+07H],0E2H ;Put your 4th number MSB here**

**MOV AL,[BX]**

**MOV AH,[BX+01H]**

**MOV CL,[BX+02H]**

**MOV CH,[BX+03H]**

**ADD AL,CL**

**ADC AH,CH**

**MOV CL,[BX+04H]**

**MOV CH,[BX+05H]**

**ADD AL,CL**

**ADC AH,CH**

**MOV CL,[BX+06H]**

**MOV CH,[BX+07H]**

**ADD AL,CL**

**ADC AH,CH**

**MOV [BX+08H],AL**

**MOV [BX+09H],AH**

**MOV AH,4CH**

**INT 21H**

**END**