# **Lab 29 – Macros**

## **Objectives**

The objective of this lab is learning how to write macro for a given task.

## **Lab Tasks**

**Lab Task 1**: Write a macro HEX\_OUT that displays the contents of a word as four hex

Digits.

**Lab Task 2:** Write a POWER MACRO N, which takes the number in AX and raises it to the

power of N, where N is a positive number. The result should be stored in AX.

Task-2:

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| power macro n  sub n,48d  mov bl,n  mov cl,n  dec cl  ;sub bl,48d  loops:  mul bl  loop loops  mov bl,al  endm  msgread macro p  lea dx,p  mov ah,9  int 21h  endm  spacing macro  mov ah,2  mov dl,0Ah  int 21h  mov ah,2  mov dl,0Dh  int 21h  endm  .MODEL SMALL  .STACK 100h  .DATA  str db 'Enter the number$'  .code  main proc  msgread str  mov ah,1  int 21h  power al  spacing  mov ax,bx  main endp  end main |