

## **EXPERIMENT N0-3**

**AIM: Write ALP to perform multiplication of two single digit numbers using macro**

### **CODE:**

DATA SEGMENT

M1 DB 0DH, 0AH,"Enter Number 1: \$"

M2 DB 0DH, 0AH,"Enter Number 2: \$"

M3 DB 0DH, 0AH,"Multiplication: \$"

DATA ENDS

PRINT MACRO MSG

MOV AH,09H

MOV DX,OFFSET MSG

INT 21H

ENDM

CODE SEGMENT

ASSUME CS:CODE,DS:DATA

START:

MOV AX,DATA

MOV DS,AX

PRINT M1

MOV AH,01H

INT 21H

SUB AL,30H

MOV BL,AL

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PRINT M2
MOV AH,01H
INT 21H
SUB AL,30H
MUL BL
PRINT M3
AAM
ADD AL,30H
ADD AH,30H
MOV CX,AX
MOV DL,CH
MOV AH,02H
INT 21H
MOV DL,CL
MOV AH,02H
INT 21H
MOV AH,4CH
INT 21H
CODE ENDS
END START
```

## OUTPUT:

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX

Invoking: ML.EXE /I. /Zm /c /Ta macro.asm

Microsoft (R) Macro Assembler Version 6.11
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Assembling: macro.asm

C:\MASM\BIN>link macro.obj

Microsoft (R) Segmented Executable Linker Version 5.31.009 Jul 13 1992
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Run File [macro.exe]:
List File [nul.map]:
Libraries [libl]:
Definitions File [nul.def]:
LINK : warning L4021: no stack segment

C:\MASM\BIN>macro

Enter Number 1: 5
Enter Number 2: 4
Multiplication: 20
C:\MASM\BIN>_
```