Program #20

WRITE AN ALP TO READ A NUMBER TO FIND FACTORIAL.

SOURCE CODE

* Filename : DIFF.ASM

* **Description**: TO READ A NUMBER TO FIND FACTORIAL.

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```
Program
DATA SEGMENT
     NUM1 db 00H
     RESULT db 00H
     msg1 db "Enter number: $"
     msg3 db " Factorial is: $"
DATA ENDS
CODE SEGMENT
ASSUME CS:CODE,DS:DATA
START:MOV AX,DATA
      MOV DS.AX
      LEA DX,msg1
      MOV AH,9
      INT 21H
      MOV AH,1
      INT 21H
     SUB AL,30H
     MOV NUM1.AL
 L1: DEC NUM1
     MUL NUM1
     MOV CL, NUM1
     CMP CL,01
     JNZ L1
AAM
ADD AH,30H
ADD AL,30H
MOV BX,AX
LEA DX,MSG3
MOV AH,9
INT 21H
MOV AH,2
MOV DL,BH
INT 21H
```

MOV AH,2

MOV DL,BL INT 21H MOV AH,4CH INT 21H CODE ENDS END START

RESULT

Input		Output
Enter number:	0003H	Factorial is: 0006H