

### **Manual for Experiment-3**

**Objective:** WAP in 8086, to perform multiplication of two 8-bit numbers, where Numbers are stored from offset 4000H and store the result into offset 4008H.

**Requirements:** VMC-8609AD microprocessor kit and a keyboard as a user interface for the kit.

**Program:**

- MOV SI, 4000
- MOV DI, 4008
- MOV AL, [SI]
- INC SI
- MOV BL, [SI]
- MUL BL
- MOV [DI], AX
- INT 03

**Procedure:** Reset your kit, and Press "A" to assemble then write the assembly language program line by line then, press 'F7' to open the menu of the kit and press 'F' to write the input values to the desired memory locations as given in the table,

Data to be store	Memory Location
04H	4000H
03H	4001H

Now, press 'G' to run the program and then press 'F7' to open the menu. Results of a memory location will be displayed by 'D' option and the memory location, specified by the user.

**Results:** Results of multiplication of two 08-bit numbers, while the numbers are 04H and 03H, will be 000CH which is stored at the location 4008H according to memory rule.