

# EXPERIMENT 6

Aim :-

To multiply & factorize 8 bit numbers.

Program

i) Multiply

```
mov al, bl
mov bl, 03h
mul bl
dec bal
```

indirect :-

Data Segment

N<sub>1</sub> Dword 01h

N<sub>2</sub> Dword 03h

N<sub>3</sub> Dword ?

Data ends.

Code Segment-

Assume CS: Code, OS: Code

Start

Mov Ax, DATA

Mov DS, AX

Mov AX, N1

Mov BX, N2

Mul BX

Mov N3, BX

Code ends

ii) Factorial

mov al, 01h

mov bl, 03h

loop:

mul bl

dec bl

jnz loop



## Result

We have Successfully multiplied & factorized  
8-bit number

### Multiplication

	H	L
Ax	00	03
Bx	00	03
Cx	00	00
Dx	00	00

### Factorial

	H	L
Ax	00	06
Bx	00	00
Cx	00	00
Dx	00	00

### Multiple indirect

	H	L
Ax	00	03
Bx	00	03
Cx	00	22
Dx	00	00