

EXPERIMENT – 6

AIM:- To find factorial of a number.

Code-

```
ORG 0000H  
MOV A,#01H  
MOV R3,#05H  
MOV R2,#05H  
LABEL1:MOV B,R3  
MUL AB  
DEC R3  
DJNZ R2,LABEL1  
END
```

INPUT-

```
MOV R3,#05H
```

OUTPUT-

Register	Value
Regs	
r0	0x00
r1	0x00
r2	0x00
r3	0x00
r4	0x00
r5	0x00
r6	0x00
r7	0x00
Sys	
a	0x78
b	0x00
sp	0x07
sp_max	0x07
dptr	0x0000
PC \$	C:0x000C
states	48
sec	0.00002400
psw	0x00

Result-

We have find the factorial of 5 which is stored in accumulator.