EXPERIMENT 12

Write an assembly language program to find factorial of n in the given number.

CODE:

LXI H,2000

MOV B,M

MVI D,01H

FACTORIAL: CALL MULTIPLY

DCR B

JNZ FACTORIAL

INX H

MOV M,D

HLT

MULTIPLY: MOV E,B

MVI A,00H

MULTIPLYLOOP: ADD D

DCR E

JNZ MULTIPLYLOOP

MOV D,A

STA 2001

RET