

```
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, 00
MULTIPLYLOOP: ADD D
DCR E
JNZ MULTIPLYLOOP
MOV D, A
STA 2001
RET
```