

Tutorial-2

MIT

Page No.:

Date: / /

U20CS110

Krishna Pandey

①
LXI SP, 3000H
LXI H, 1050H
LXI D, 2060H
PUSH H
PUSH D
~~POP~~ H
POP D
HLT

②
DE = B225H
PSW = 0000H

③
LXI H, 3000H
MOV B, M
MVI D, 01H
FAC: CALL MUL
DCR B
JNZ H
MOV M, D
HLT
MUL: MOV E, B
MVI A, 00H
MLoop: ADD D
DCR E
JNZ MLoop
MOV D, A
RET

④

LXI H, 3000H

MVI B, 05H

MVI C, 02H

MVI D, 01H

PLOOP: CALL MUL

DCR C

JNZ PLOOP

MOV M, D

HLT

MUL: MOV E, B

MVI A, 00H

JNX H

MLOOP: ADD D

DCR E

JNZ MLOOP

MOV D, A

RET

Base is B register

Exponent is C register