**Terna Engineering College**
**Computer Engineering Department**

**Program: Sem V**

**Course: Microprocessor Lab**

**Faculty: ARATHI BOYANAPALLI**

**PRACTICE EXAMPLE**

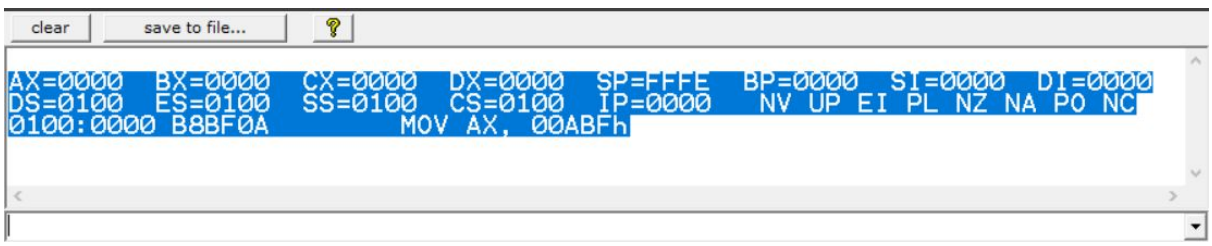
| | |
|---|---|
| **Roll No.: 50** | **Name: Amey Thakur** |
| **Class: TE-Comps B** | **Batch: B3** |
| **Date of Experiment: 10/11/2020** | **Date of Submission: 10/11/2020** |

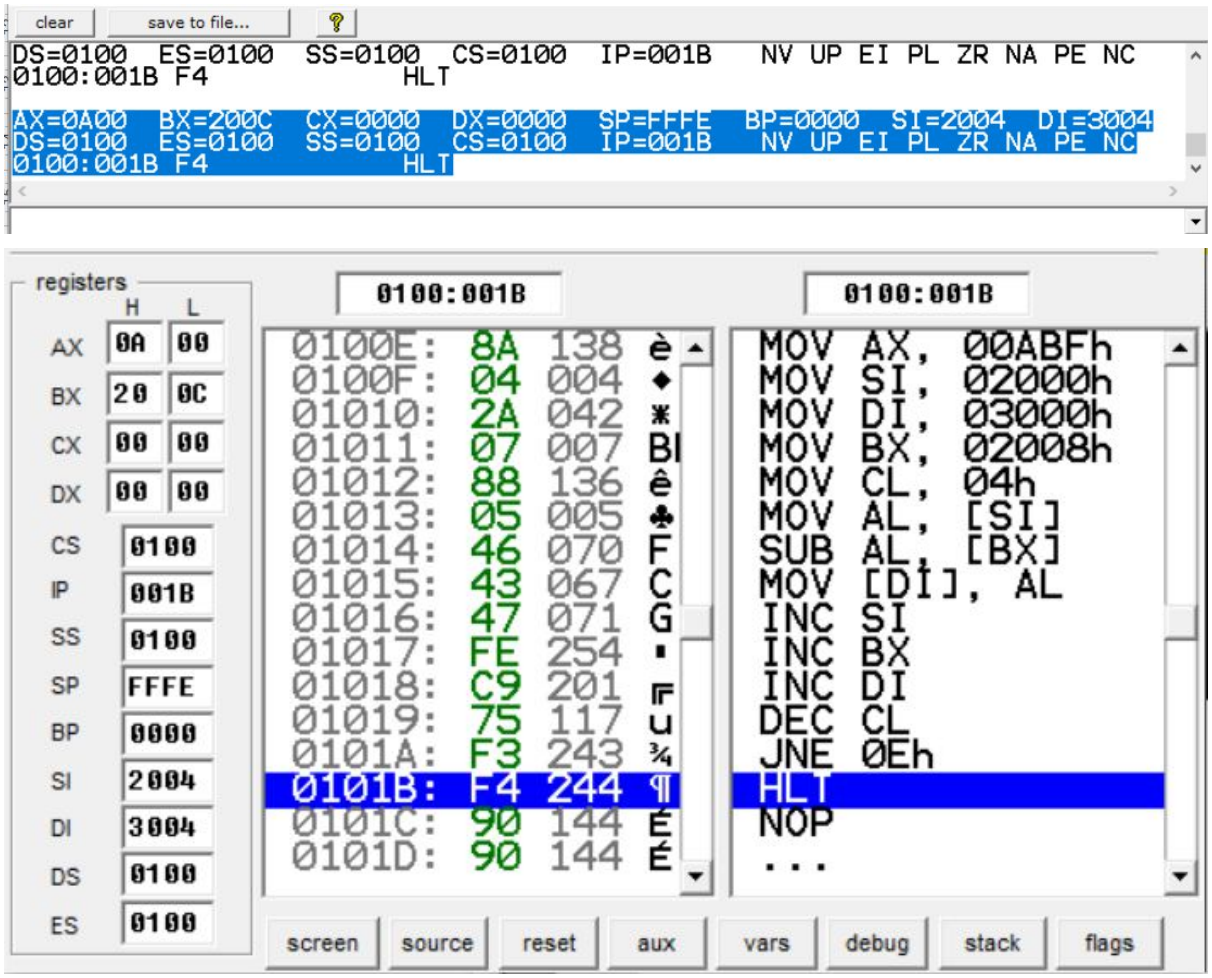
➔ **Aim:**
Write a Program to perform multi-byte subtraction.

➔ **Input:**

```
MOV AX, 0ABFH
MOV SI, 2000H
MOV DI, 3000H
MOV BX, 2008H
MOV CL, 04H
UP: MOV AL, [SI]
SUB AL, [BX]
MOV [DI], AL
INC SI
INC BX
INC DI
DEC CL
JNZ UP
HLT
```

➔ **Output:**




clear
save to file...
DS=0100 ES=0100 SS=0100 CS=0100 IP=001B NV UP EI PL ZR NA PE NC
0100:001B F4 HLT
AX=0A00 BX=200C CX=0000 DX=0000 SP=FFFE BP=0000 SI=2004 DI=3004
DS=0100 ES=0100 SS=0100 CS=0100 IP=001B NV UP EI PL ZR NA PE NC
0100:001B F4 HLT
registers
H L
AX 0A 00
BX 20 0C
CX 00 00
DX 00 00
CS 0100
IP 001B
SS 0100
SP FFFE
BP 0000
SI 2004
DI 3004
DS 0100
ES 0100
0100:001B
0100E: 8A 138 è
0100F: 04 004 ♦
01010: 2A 042 *
01011: 07 007 BI
01012: 88 136 ê
01013: 05 005 ♣
01014: 46 070 F
01015: 43 067 C
01016: 47 071 G
01017: FE 254 ■
01018: C9 201 ╔
01019: 75 117 u
0101A: F3 243 ¾
0101B: F4 244 ¶
0101C: 90 144 É
0101D: 90 144 É
0100:001B
MOV AX, 00ABFh
MOV SI, 02000h
MOV DI, 03000h
MOV BX, 02008h
MOV CL, 04h
MOV AL, [SI]
SUB AL, [BX]
MOV [DI], AL
INC SI
INC BX
INC DI
DEC CL
JNE 0Eh
HLT
NOP
...
screen
source
reset
aux
vars
debug
stack
flags