## OC EXPERIMENT 4

a) Title of the experiment  $\rightarrow$  writing program in emulator 8086

b) Your name  $\rightarrow$  YASH GUPTA

c)Roll no  $\rightarrow$  S20200010234

d) About the experiments →Installing emu8086, using basic command

in emu8086 and

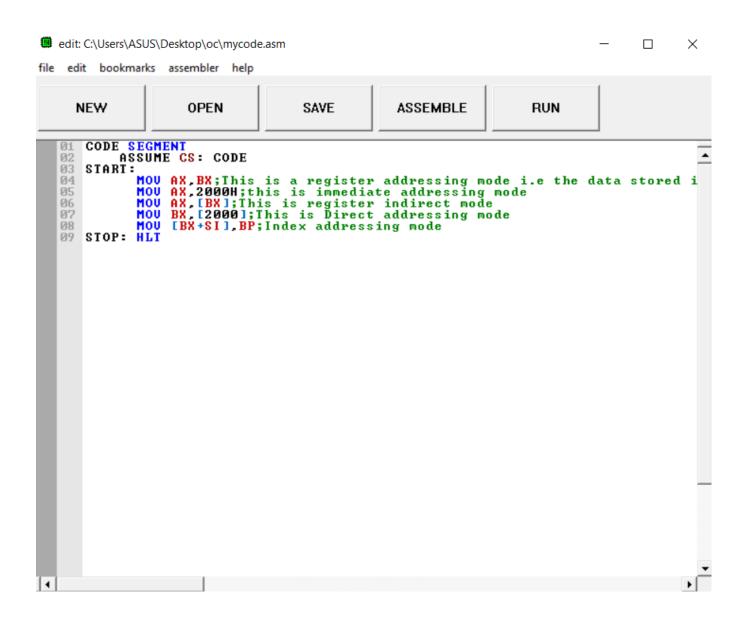
making programs.

e) Your observation/what you learned

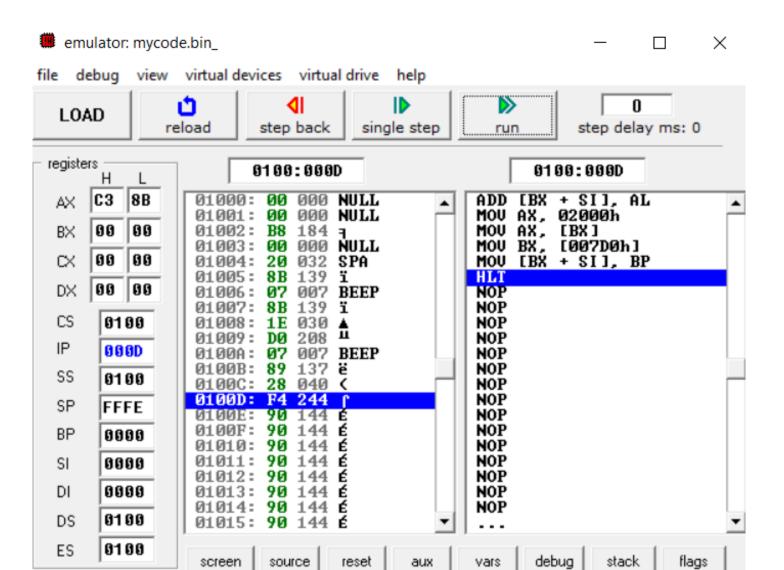
→making program

with assembly language

- 1. Write assembly language program to demonstrate different addressing mode
- Register
- Direct
- Immediate
- Register indirect
- Index

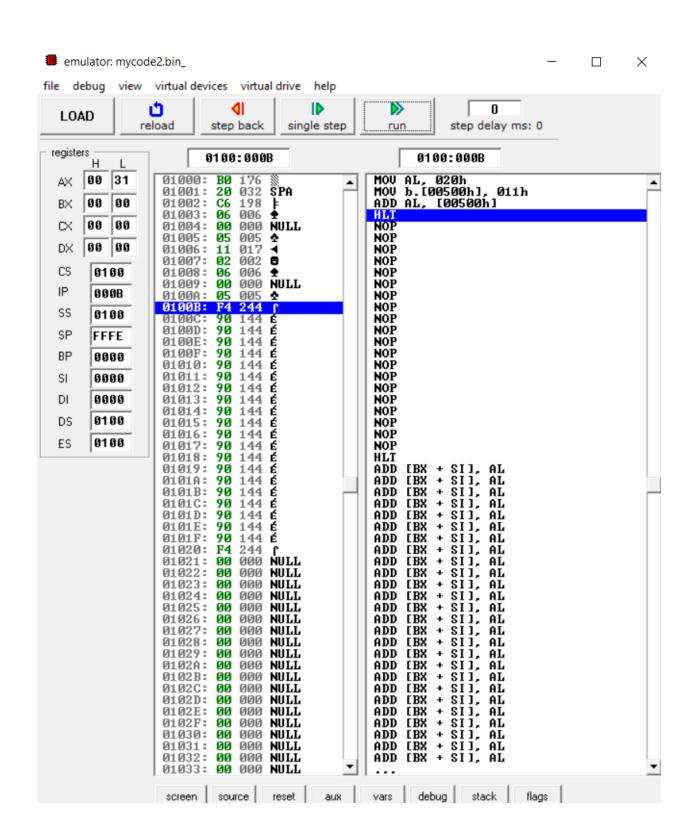


```
original source code
                                                                          \times
   CODE SEGMENT
ASSUME CS: CODE
                                                                                 ٠
03
   START:
   MOU AL, 20H
                       ;initializing AL with 20H
05 MOU [500H],11H
                       ;initilaizing memory space [500h] with 11H
  ADD AL, [500H]
                       ;adding value of AL with value of [500H]
08 STOP: HLT
09
10
```



## 2. Add two 8 bit numbers (one in register and other one in memory)





## THANK YOU