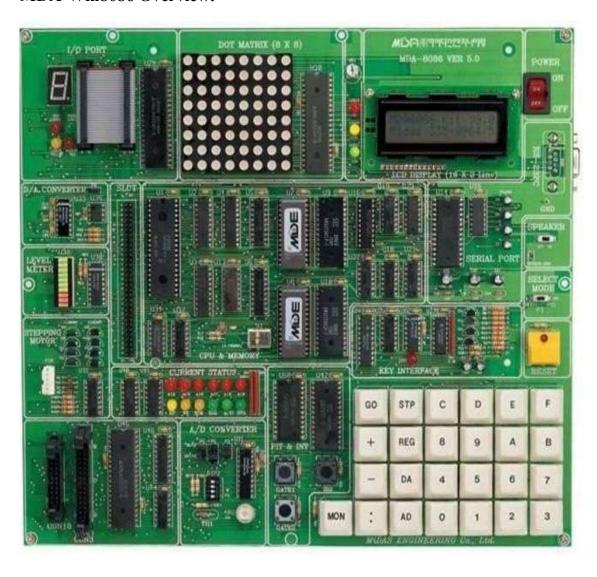
INDEX

Experiment No.	Experiment's Name	Page No.
01	Introductory Idea of 8086 Microprocessor and exploring MDA-Win8086 Trainer Kit.	
02	Introductory Idea of 8086 Microprocessor and exploring EMU8086 emulator.	
03	Write a and verify Assembly Language Program for Addition and Subtraction in emu8086.	
04	Write a and verify Assembly Language Program for Multiplication and Division in emu8086.	
05	Write a and verify Assembly Language Program for different logical operation in emu8086.	
06	Interfacing LED, 7 Segment display with 8086 using 8255 PPI in MDA- Win8086 Trainer Kit.	

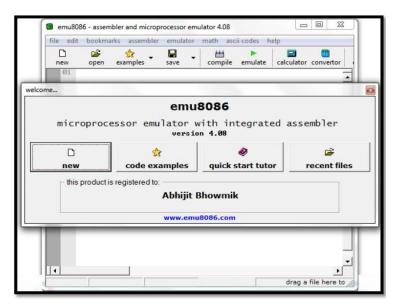
MDA-Win8086 Overview:



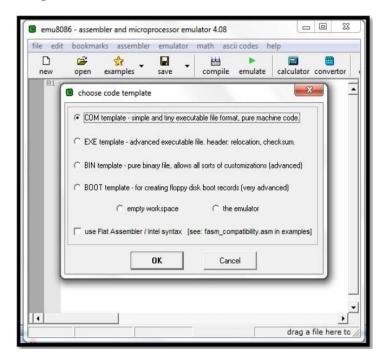
Emu8086:



Click "new"

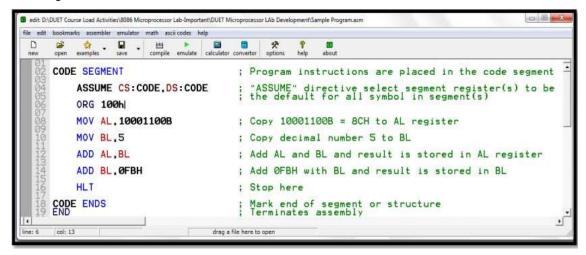


Choose COM template and then click Ok

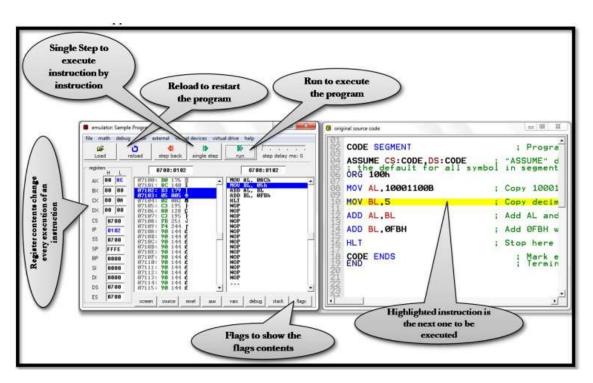


Example: Create **COM** file and write the following 8086 assembly language

Example on the emulator to see how it works

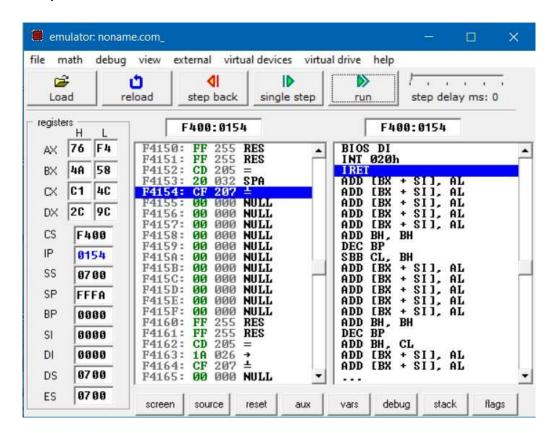


Start emulation by clicking the "emulate" button on the toolbar. A new emulator window will appear



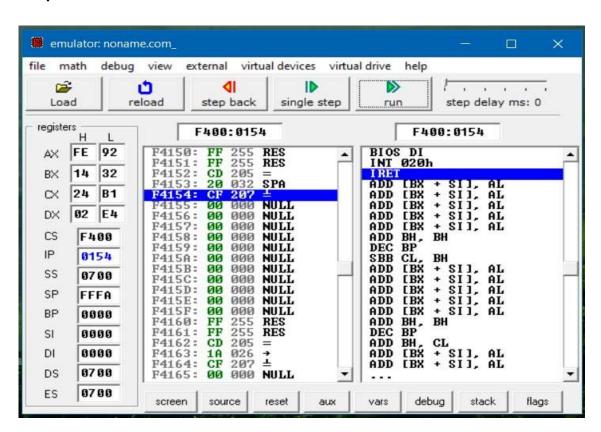
Assembly Program in emu8086:

```
X
                                                                    emu8086 - assembler and microprocessor emulator 4.08
file edit bookmarks assembler emulator math ascii codes help
  -
                                #
                                                                 1
  new
           open
                  examples
                                save
                                           compile
                                                    emulate
                                                              calculator convertor
       org 100h
                                                                              •
   02
       MOU AX,
   03
                  76F4H
       MOU BX,
   94
                   4A58H
      MOU CX.
                  BX
AX
AX
BX
   05
   06
   07 MOU DX.
08 SUB DX.
   09
   10 ret
   11
   12
   13
   14
4
line: 9
           col: 3
                                                                drag a file here
```

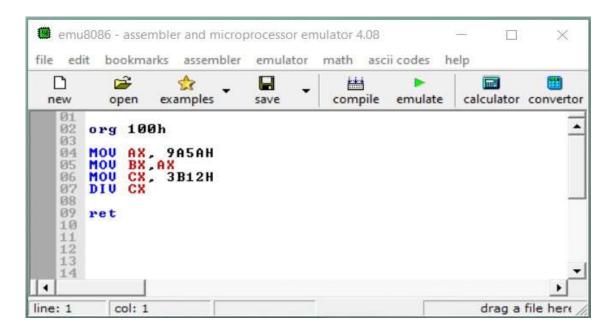


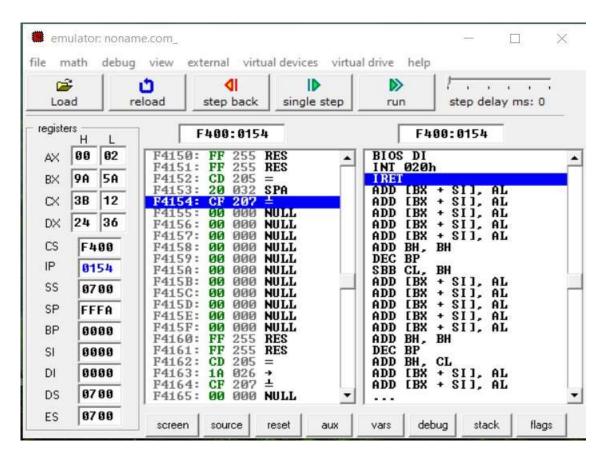
Assembly Program in emu8086 for Multiplication:

```
mulator 4.08 emulator - assembler and microprocessor emulator 4.08
                                                                       \times
    edit bookmarks
                      assembler
                                 emulator
                                           math
                                                  ascii codes
            pà
   #
                                                                    1112
  new
                                                                 calculator convertor
           open
                   examples
                                 save
                                             compile
                                                       emulate
    131
    02
           You may customize this and other start-up temple
        ; The location of this template is c:\emu8086\inc
    03
    04
    05
        org 100h
    06
        MOU AX, 1432H
MOU BX, AX
MOU CX, 24B1H
MUL CX
    07
    98
    09
       MUL
    10
    12
        ret
    13
    14
 4
            col: 11
                                                                   drag a file here
line: 8
```

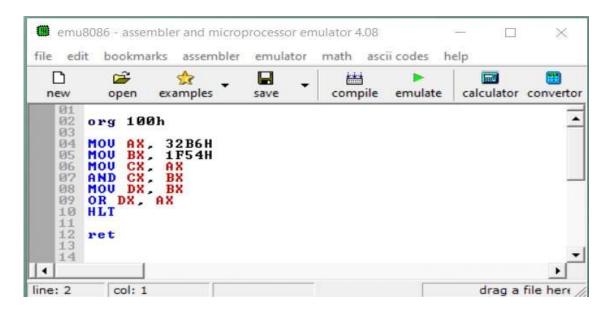


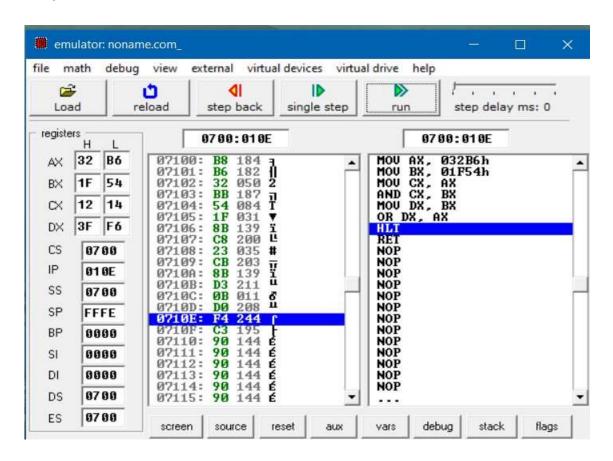
Assembly Program in emu8086 for Division:





Assembly Program in emu8086 for Logical AND and OR operation:





Assembly Program in emu8086 for Logical XOR and NOT operation:

