## Program 1:

mu8086 - assembler and microprocessor emulator 4.08 file edit bookmarks assembler emulator math ascii codes help Ŷ H 1112 仌 **(E)** new open examples save compile emulate calculator convertor options help about org 0100h .DATA X DB ? 02 03 X DB ?
04 X1 DB "ENTER VALUE OF X: \$"
05 Y DB ?
06 Y1 DB "ENTER VALUE OF Y: \$"
07 Z1 DB ?
08 Z11 DB "Z=X+Y IS: \$"
09 Z2 DB ?
10 Z22 DB "Z=X-Y+1 IS: \$" 03 Z11 DB "Z=X+Y IS: \$"

Z2 DB "

Z22 DB "Z=X-Y+1 IS: \$"

CODE

MAIN PROC

MOU AX, EDATA

MOU DS, AX

;FOR INPUT MSG OF X

MOU AH, 9

LEA DX, X1

INT 21H

;FOR INPUT X

MOU AH, 1

INT 21H

MOU X, AL

;FOR MEW LINE

MOU DL, EDH

INT 21H

MOU DL, EDH

INT 21H

;FOR INPUT MSG OF Y

MOU AH, 9

LEA DX, Y1

INT 21H

;FOR INPUT Y

MOU AH, 9

LEA DX, Y1

INT 21H

MOU AH, 1

INT 21H

MOU AH, 2

MOU AH, 1

INT 21H

;FOR NEW LINE

MOU AH, 2

MOU AH, 1

INT 21H

MOU AH, 2

MOU AH, 2

MOU AL, 2

MOU DL, EDH

INT 21H

MOU DL, EAH

INT 21H

MOU AL, X

ADD AL, Y

SUB AL, 'O'

MOU AL, X

ADD AL, Y

SUB AL, 'O'

MOU AH, 9

LEA DX, Z11

INT 21H

;FOR OUTPUT MSG OF Z=X+Y

MOU AH, 9

LEA DX, Z11

INT 21H

;FOR OUTPUT Z=X+Y

MOU AH, 2

MOU AH, 3

MOU AL, 3

MOU AH, 3

MOU A 11 12 13 14 15 16 17 18 19 22 22 23 24 25 26 27 28 29 33 33 33 33 33 33 33 33 33 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55

line: 84 col: 1 drag a file here to open



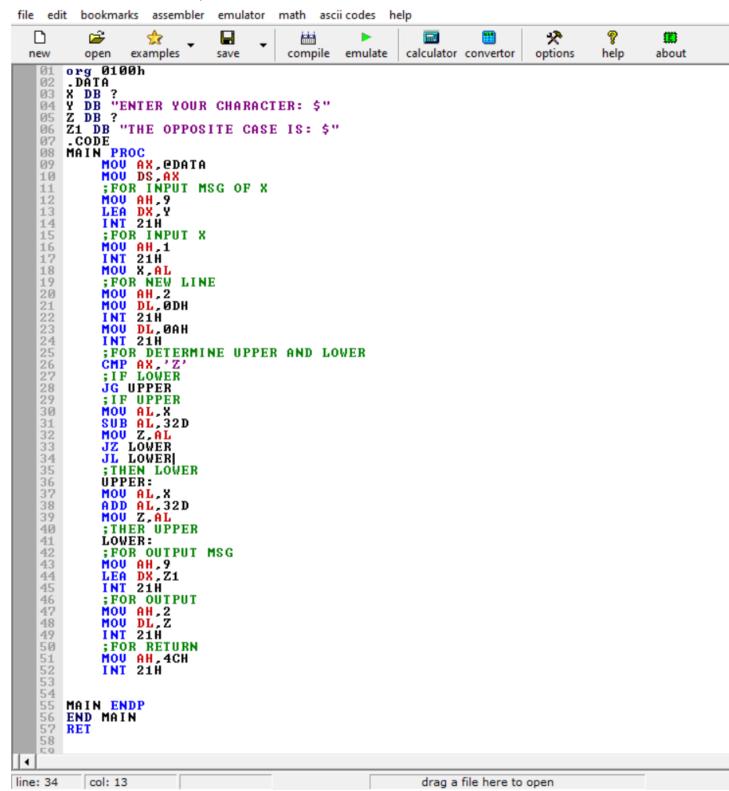
1

## emulator screen (80x25 chars)

```
ENTER VALUE OF X: 5
ENTER VALUE OF Y: 4
Z=X+Y IS: 9
Z=X-Y+1 IS: 2
```

## Program 2:

mulator 4.08 emu8086 - assembler and microprocessor emulator 4.08



emulator screen (80x25 chars)

ENTER YOUR CHARACTER: A THE OPPOSITE CASE IS: a

emulator screen (80x25 chars)

ENTER YOUR CHARACTER: a
THE OPPOSITE CASE IS: A