Experiment No. 8: Case conversion

Date: 16-10-2020

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AIM:

Program for case conversion of letters.

PROGRAM:

PROGRAM	**COMMENTS**

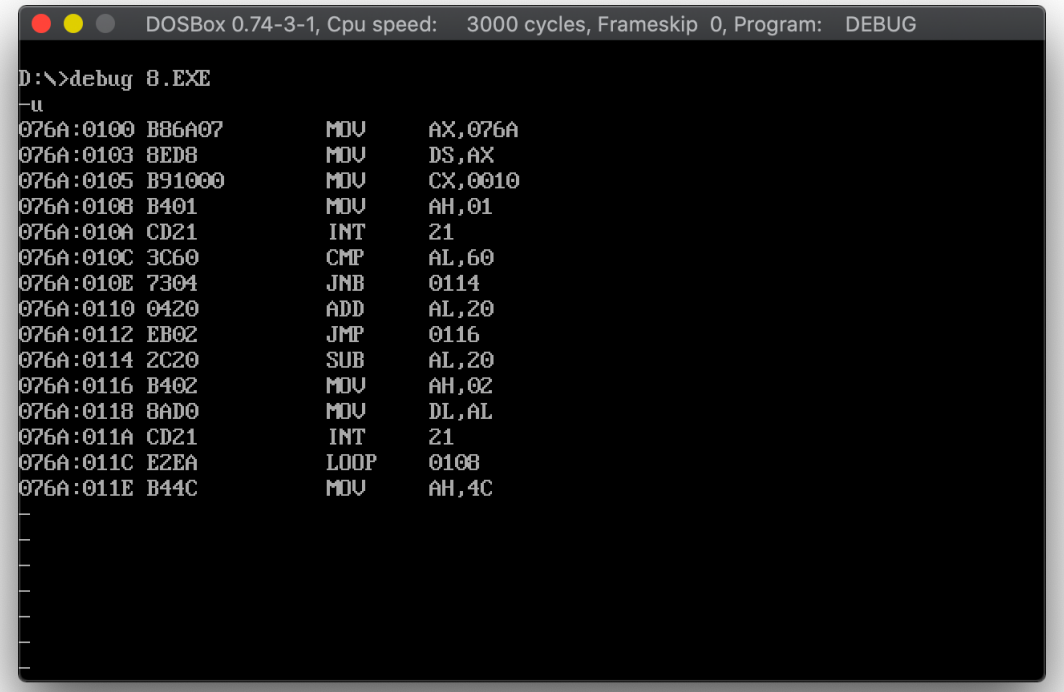
START:
MOV AX,data
MOV DS,AX
MOV CX,COUNT
	
	Transferring address of data segment to ds
	
	Move count value to cx register

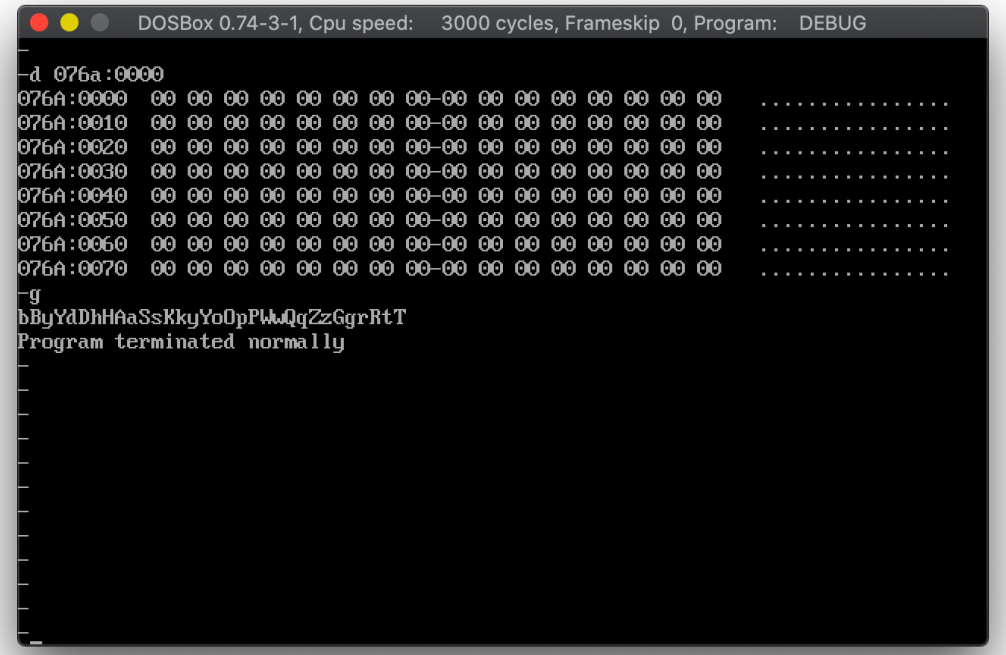
L1:
MOV AH,1
INT 21H
CMP AL,60H
JNC UPPER
ADD AL,20H
JMP SKIP
	
	Read the letters with echo
	Compare the values of al with 60H
	Jump to upper if there is no carry generated
	al=al+20h
	Jump to skip

UPPER: SUB AL,20H	 al=al-20h

SKIP:
MOV AH,2
MOV DL,AL
INT 21H
LOOP L1
MOV Ah,4CH
INT 21H
	
	Character output function
	Load al to dl
	Display character to output device
	Repeat loop l1
	
	Terminate the program

SAMPLE INPUT/OUTPUT:





RESULT:

Thus case conversion of letters has been performed.

Experiment No. 9: Floating point operations

A. AIM:

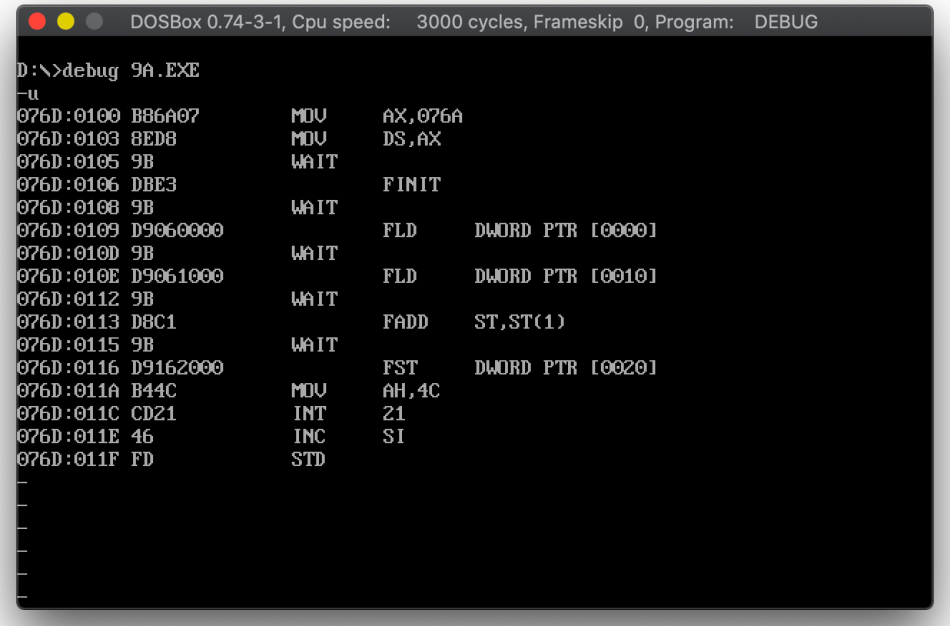
Program for performing floating point addition.

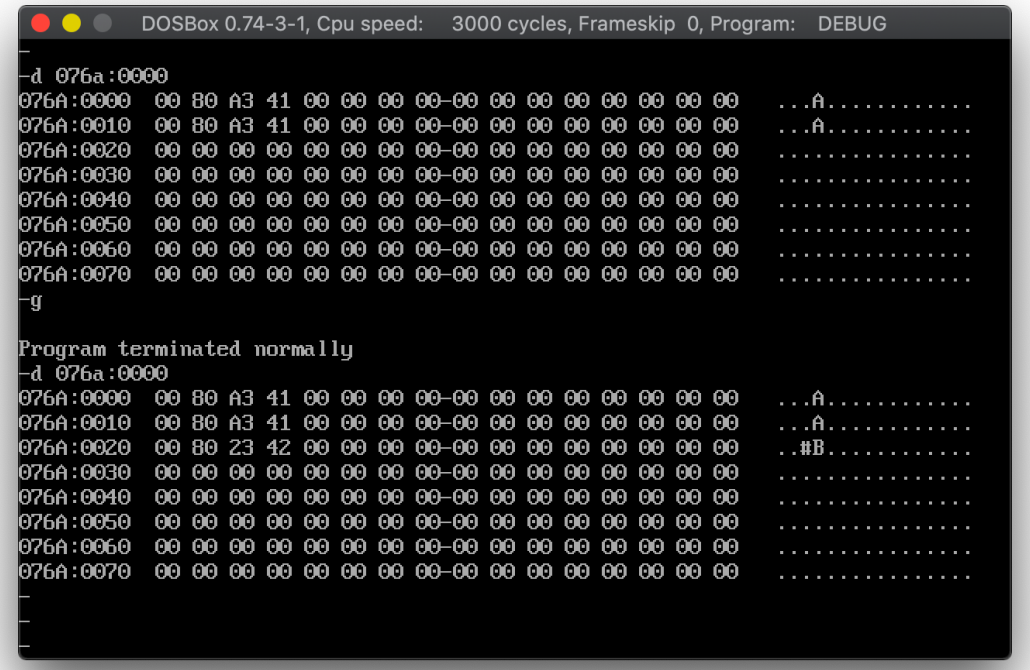
PROGRAM:

PROGRAM	COMMENTS

start:
MOV AX,DATASEG
MOV DS,AX
FINIT
FLD X
FLD Y
FADD ST(0),ST(1)
FST SUM
MOV AH,4CH
INT 21H
	
	Load data segment to ds
	Initialize 8087 stack
	Load floating point value X into ST(0)
	Load floating point value Y into ST(0)
	ST(0) = X+Y
	store ST(0) in sum
	
	Terminate the program

SAMPLE INPUT/OUTPUT





RESULT:

Thus floating point addition has been performed.

B. AIM:

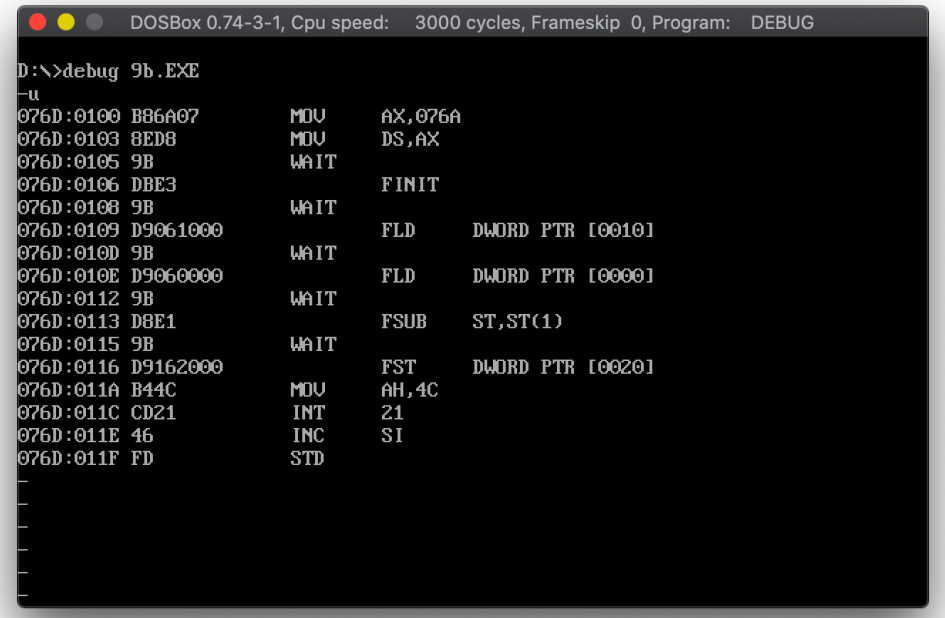
Program for performing floating point subtraction.

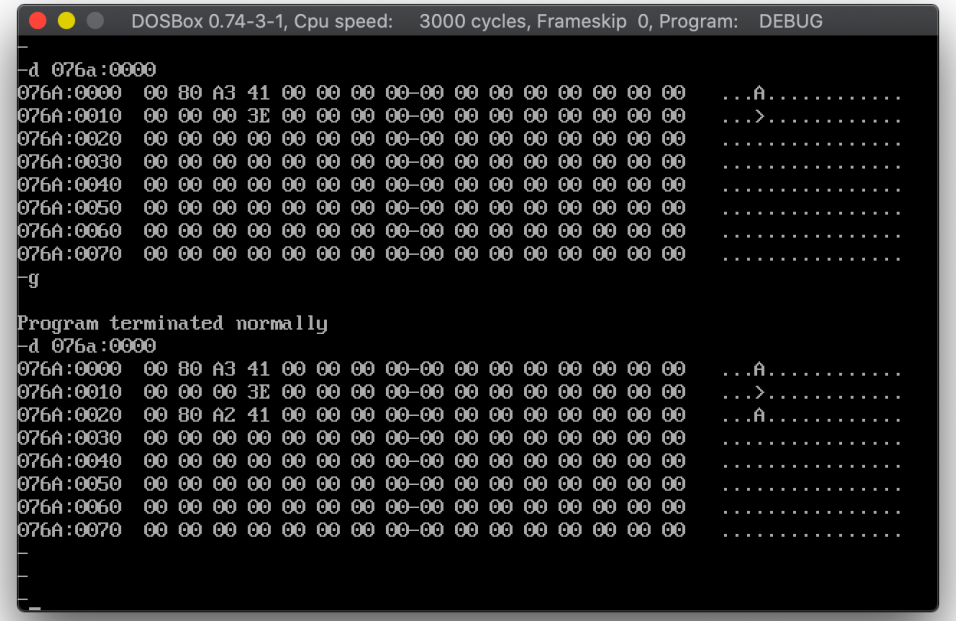
PROGRAM:

PROGRAM	**COMMENTS**

start:
MOV AX,DATASEG
MOV DS,AX
FINIT
FLD X
FLD Y
FSUB ST(0),ST(1) ;
FST SUM
MOV AH,4CH
INT 21H
	
	Load data segment to ds
	Initialize 8087 stack
	Load floating point value X into ST(0)
	Load floating point value Y into ST(0)
	ST(0) = X-Y
	store ST(0) in sum
	
	Terminate the program

SAMPLE INPUT/OUTPUT:





RESULT:

Thus floating point subtraction has been performed.