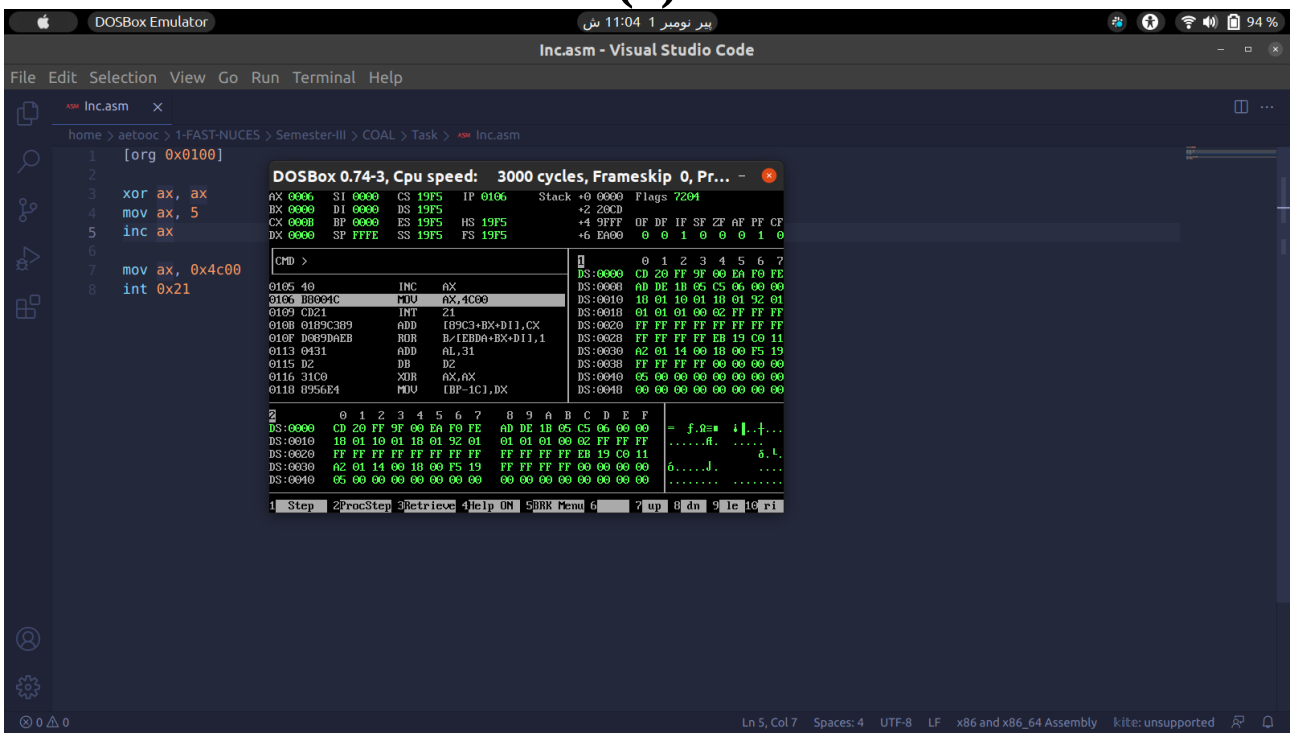
Name: Muhammad Awais
Roll No: 20P – 0107
Section: 3A

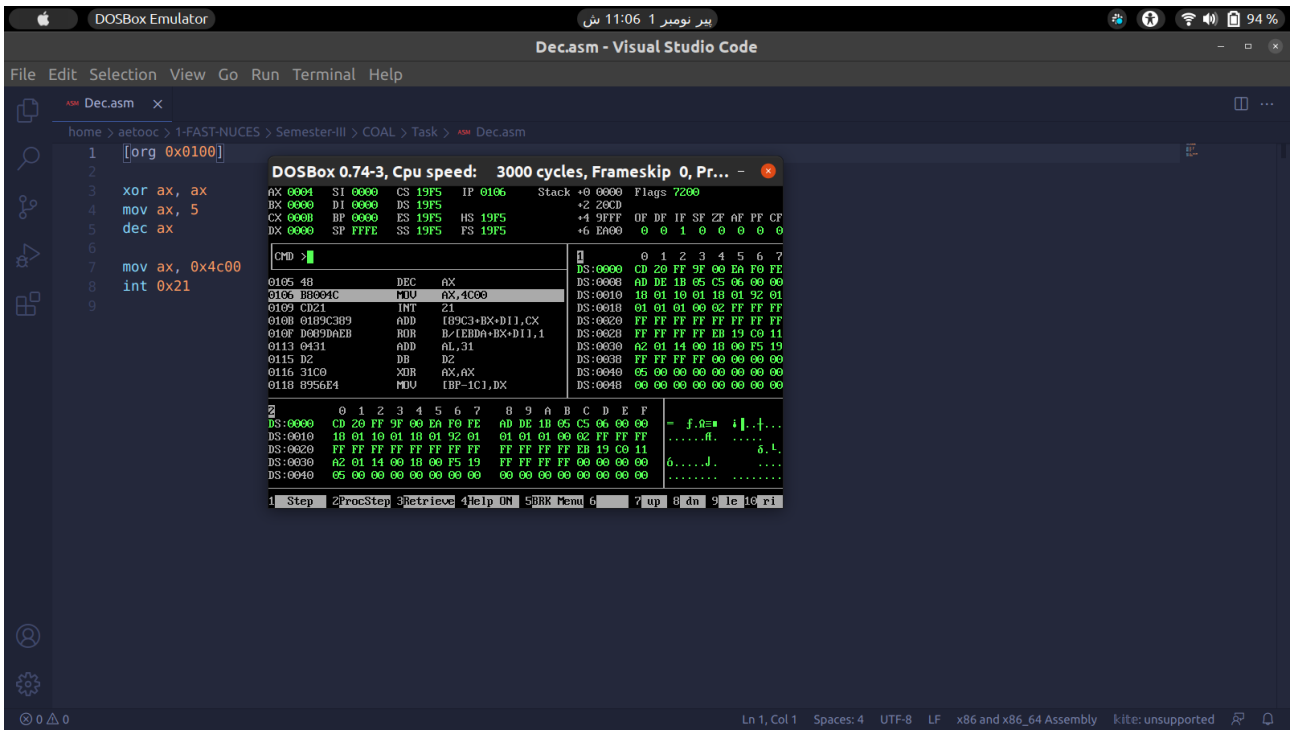
Explanation:

“Inc” increments by 1 and takes one operand;
“Dec” decrements by 1and takes one operand;
“Mul” takes one operand and multiplies it with Ax and stores it in Ax;
Ex: Mul bx ; ax = ax * bx
“Div” takes one operand and divides it with Ax and stores it in Ax;
Ex: Div bx ; ax = ax / bx

(1)



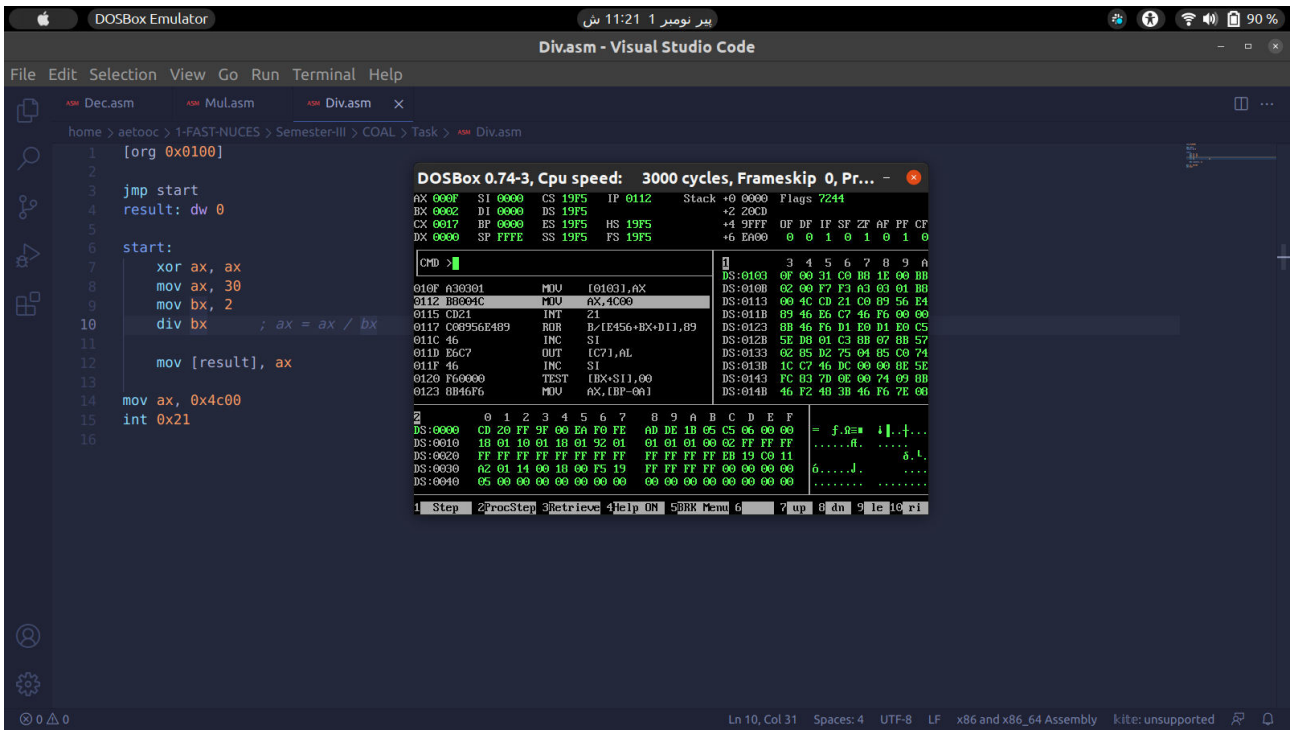
(2)


DOSBox Emulator
Dec.asm - Visual Studio Code
File Edit Selection View Go Run Terminal Help
Dec.asm
[org 0x0100]
xor ax, ax
mov ax, 5
dec ax
mov ax, 0x4c00
int 0x21
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Pr...

(3)


DOSBox Emulator
Mul.asm - Visual Studio Code
File Edit Selection View Go Run Terminal Help
Dec.asm
Mul.asm
Div.asm
[org 0x0100]
jmp start
result: dw 0
start:
xor ax, ax
mov ax, 30
mov bx, 2
mul bx ; ax = ax * bx
mov [result], ax
mov ax, 0x4c00
int 0x21
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Pr...

(4)


DOSBox Emulator
پیر نومبر 1 11:21 ش
90 %
Div.asm - Visual Studio Code
File Edit Selection View Go Run Terminal Help
Dec.asm
Mul.asm
Div.asm
home > aetooc > 1-FAST-NUCES > Semester-III > COAL > Task > Div.asm
[org 0x0100]
jmp start
result: dw 0
start:
xor ax, ax
mov ax, 30
mov bx, 2
div bx ; ax = ax / bx
mov [result], ax
mov ax, 0x4c00
int 0x21
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Pr...
AX 000F SI 0000 CS 19F5 IP 0112 Stack +0 0000 Flags 7244
BX 0002 DI 0000 DS 19F5 +2 20CD
CX 0017 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 1 0 1 0
CMD >
1 Step 2ProcStep 3Retrieve 4Help ON 5BRK Menu 6 7up 8dn 9le 10ri
Ln 10, Col 31 Spaces: 4 UTF-8 LF x86 and x86_64 Assembly kite: unsupported