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CLASS: BSSE (4th SEMESTER)

COURSE NAME: ASSEMBLY

LANGUAGE

COURSE CODE: 402

DEPARTMENT: COMPUTER SCIENCE

TASK 1: Define two variable and print them using loop:

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT
                                                                                  Χ
 File Edit Search View Options Help
                                   E:NTWO.ASM
:Write a program to define two variables and print them using loop
dosseg
.model small
 .stack 100h
.data
var1 db 2
var2 db 7
.code
main proc
mov ax,@data
mov ds,ax
mov cx.2
mov si,offset var1
L1:
mov dx,[si]
add dx,48
```

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT
File Edit Search View Options Help
                                     E:NTWO.ASM
add dx,48
mov ah,2
 int 21h
mo∨ dx,10
mov ah,2
 int 21h
mo∨ dx,13
mov ah,2
 int 21h
 inc si
 loop L1
mo∨ ah, 4ch
 int 21h
main endp
end main
```

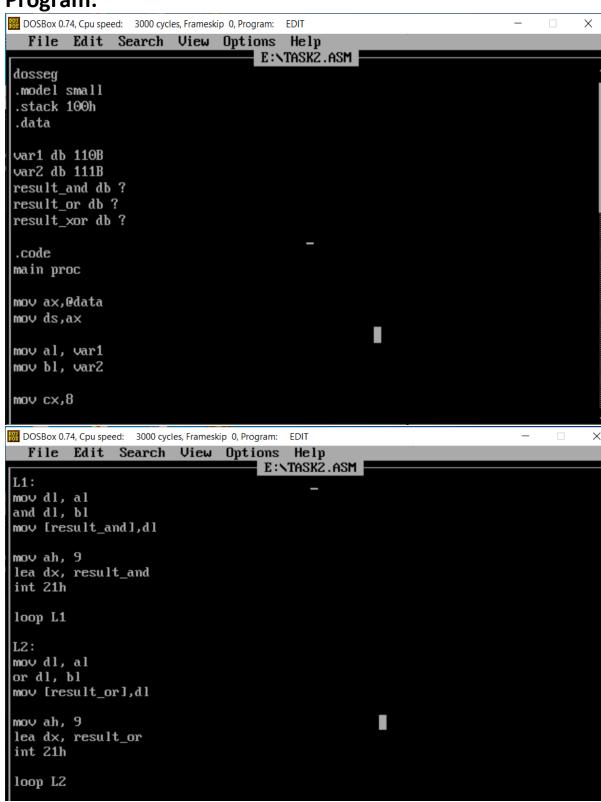
Output:

```
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

E:\>link two.obj;
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.
```

Task2: perform AND OR XOR operations in three different loops

Program:



```
BOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT
  File Edit Search View Options Help
                                   E:NTASK2.ASM
lea dx, result_or
int 21h
loop L2
L3:
mo∨ dl, al
and dl, bl
mov [result_xor],dl
movah, 9
lea dx,result_xor
int 21h
loop L3
mo∨ ah, 4ch
int 21h
main endp
end main
```

Output:

Sorry, there was an error in the output of this question. I tried my best but didn't find the solution I will try to find the problem again this week and I will ask you in the next class.