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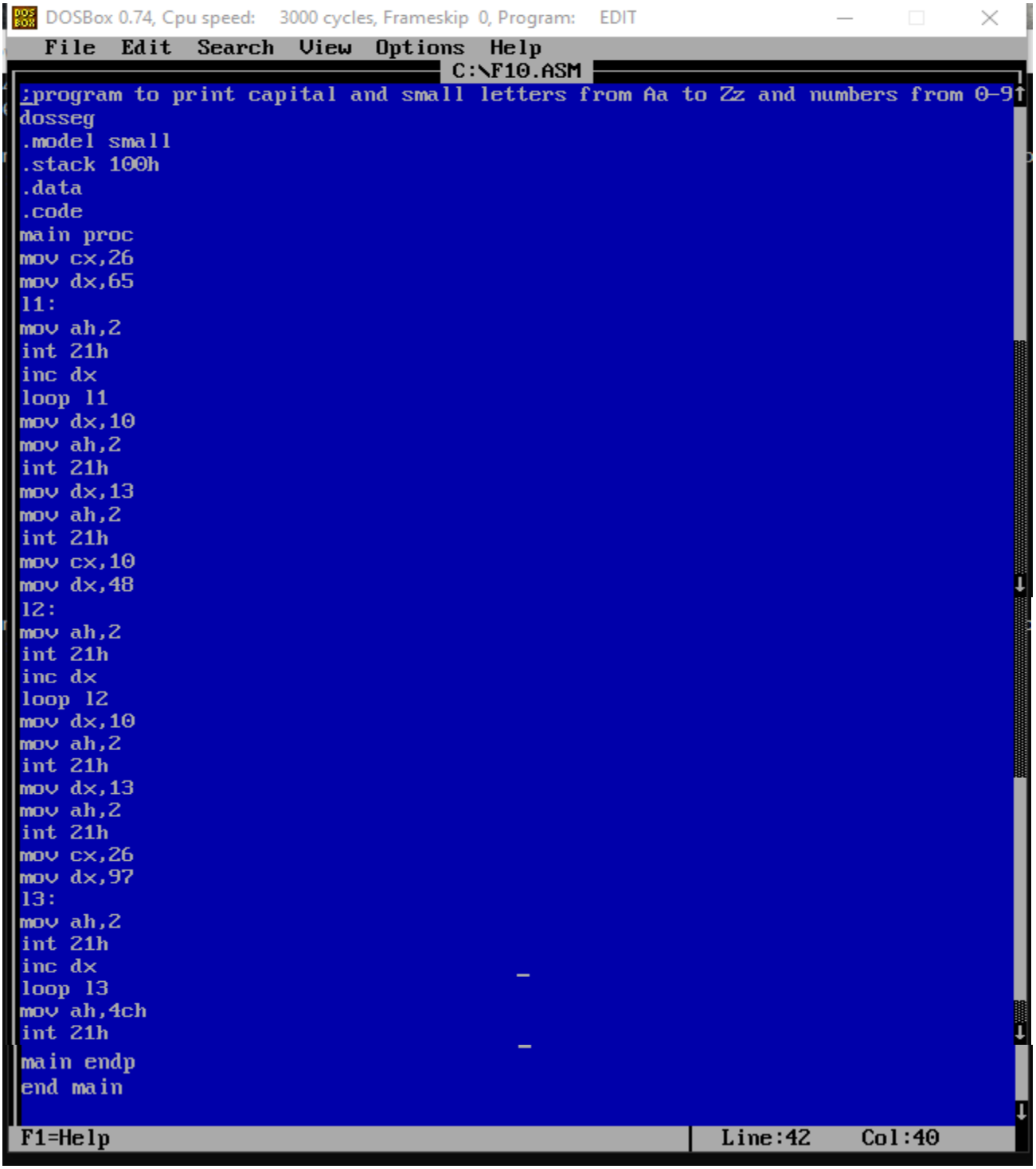
LAB TASK # 4

1. Practice code of LOOP

CODE:

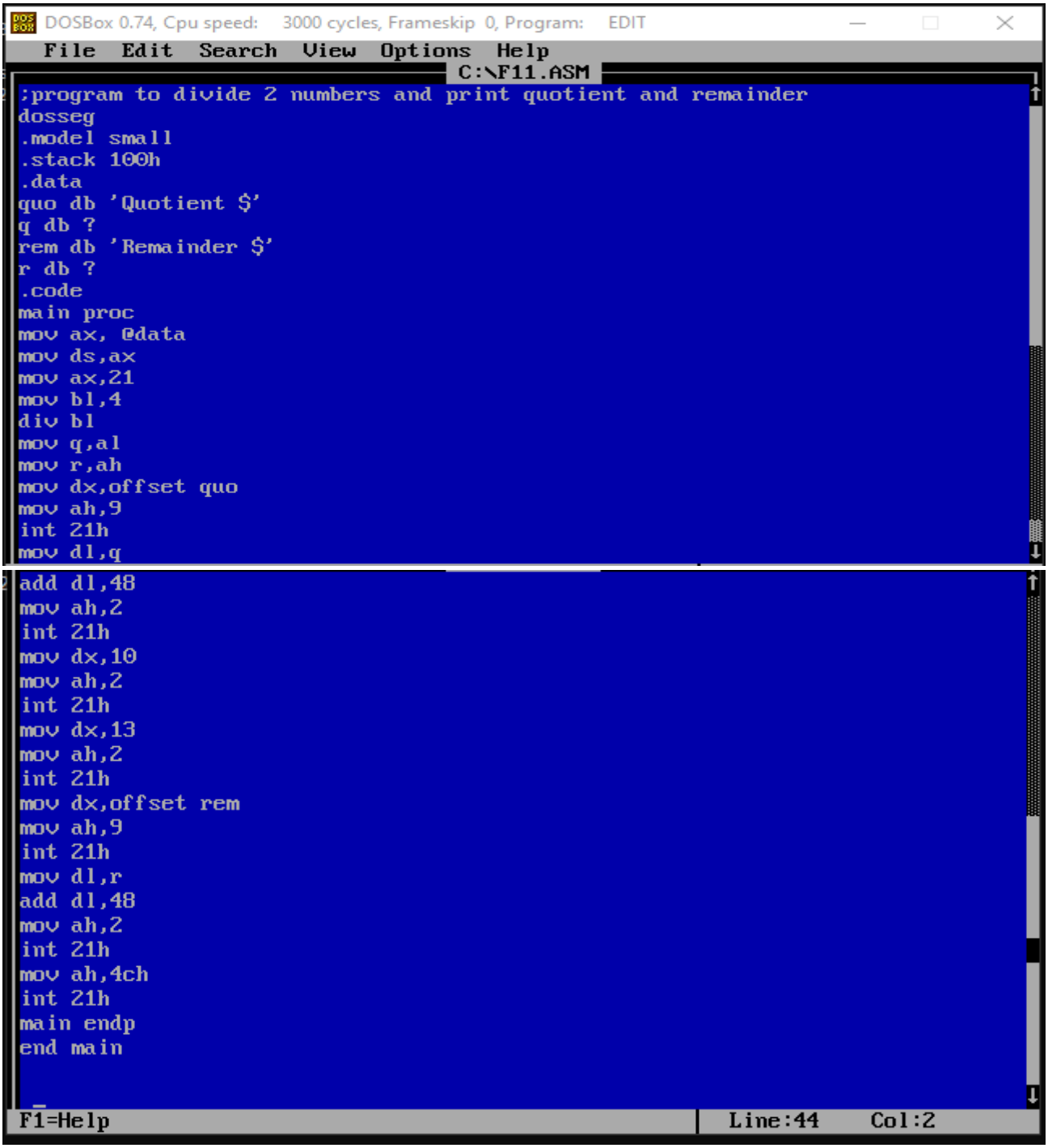


OUTPUT:

```
C:\>f10.exe
ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789
abcdefghijklmnopqrstuvwxyz
C:\>
```

2. Practice code of DIV

CODE:



OUTPUT:

```
C:\>f11.exe
Quotient 5
Remainder 1
C:\>
```

3. Practice of OR, AND, XOR

CODE:

DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT

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C:\F12.ASM

```
;program to perform AND, OR ,XOR operation in binary numbers
dosseg
.model small
.stack 100h
.data
h1 db 'AND OPERATION BETWEEN 101 AND 110 IS $'
h2 db 'OR OPERATION BETWEEN 101 AND 110 IS $'
h3 db 'XOR OPERATION BETWEEN 101 AND 110 IS $'
.code
main proc
mov ax, @data
mov ds,ax
mov dx,offset h1
mov ah,9
int 21h
mov bl,101b
and bl,110b
add bl,48
mov dl,bl
mov ah,2
int 21h
mov dx,10
int 21h
mov dx,13
mov ah,2
int 21h
mov dx,offset h2
mov ah,9
int 21h
mov bl,101b
or bl,110b
add bl,48
mov dl,bl
mov ah,2
int 21h
mov dx,10
mov ah,2
int 21h
mov dx,13
mov ah,2
int 21h
mov dx,offset h3
mov ah,9
int 21h
mov bl,101b
xor bl,110b
add bl,48
mov dl,bl
mov ah,2
int 21h
mov ah,4ch
int 21h
main endp
end main
```

OUTPUT:

```
C:\>f12.exe
AND OPERATION BETWEEN 101 AND 110 IS 4
OR OPERATION BETWEEN 101 AND 110 IS 7
XOR OPERATION BETWEEN 101 AND 110 IS 3
C:\>
```

4. Your code as discussed in today class

CODE:

DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT

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C:\F14.ASM

```
dosseg
.model small
.stack 100h
.data
q db ?
r db ?
.code
main proc
mov ax, @data
mov ds,ax
mov cx,4
l1:
mov ax,9
mov bl,2
div bl
mov q,al
mov r,ah
mov dl,q
add dl,48
mov ah,2
int 21h
mov dl,r
add dl,48
mov ah,2
int 21h
loop l1
mov dx,10
mov ah,2
int 21h
mov dx,13
mov ah,2
int 21h
mov cx,3
l2:
mov bl,111b
and bl,101b
add bl,48
mov dl,bl
mov ah,2
int 21h
loop l2
mov ah,4ch
int 21h
main endp
end main
```

F1=Help Line:46 Col:1

OUTPUT: