

NAME: ZEHRA MOHAMMAD TAQI  
SEAT NO: B21110006167

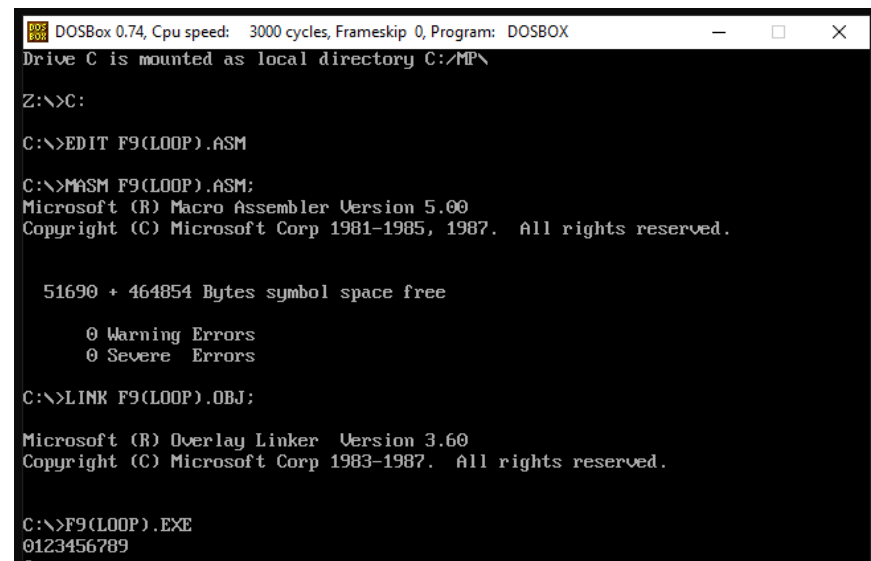
# PRACTISE CODE OF LOOP:

```
DOSSEG
.MODEL SMALL
.STACK 100H
.DATA
.CODE
MAIN PROC
MOV CX,10           ;COUNTER FOR LOOP
MOV DX,48           ;INITIAL CONDIITION

LOOP1:              ;LOOP DECLARATION
MOV AH,2
INT 21H
INC DX              ;INCREMENT

LOOP LOOP1          ;CALL FOR LOOP

MOV AH,4CH
INT 21H
MAIN ENDP
END MAIN
```



NAME: ZEHRA MOHAMMAD TAQI  
SEAT NO: B21110006167

# PRACTISE CODE OF DIVISION:

```
DOSSEG
.MODEL SMALL
.STACK 100H
.DATA
Q DW ?           ;VARIABLE FOR QUOTIENT
R DW ?           ;VARIABLE FOR REMAINDER

.CODE
MAIN PROC
MOV AX,@DATA
MOV AX,37         ;DIVIDEND
MOV DX,0          ;REGISTER FOR REMAINDER
MOV BX,7          ;DIVISOR
DIV BX

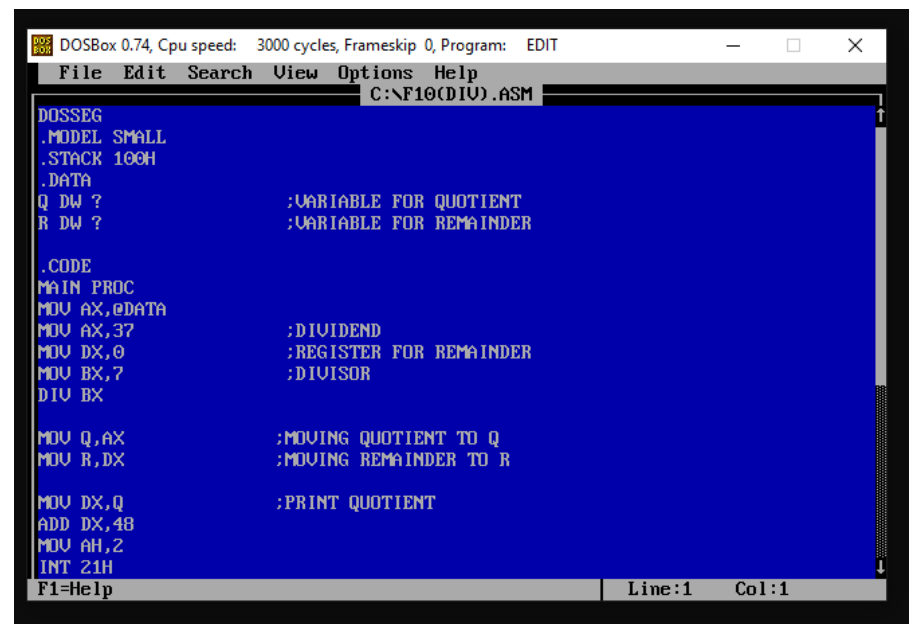
MOV Q,AX          ;MOVING QUOTIENT TO Q
MOV R,DX          ;MOVING REMAINDER TO R

MOV DX,Q          ;PRINT QUOTIENT
ADD DX,48
MOV AH,2
INT 21H

MOV DX,10
MOV AH,2
INT 21H
MOV DX,13
MOV AH,2
INT 21H

MOV DX,R          ;PRINT REMAINDER
ADD DX,48
MOV AH,2
INT 21H

MOV AH,4CH
INT 21H
MAIN ENDP
END MAIN
```



NAME: ZEHRA MOHAMMAD TAQI  
SEAT NO: B21110006167

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

File Edit Search View Options Help

C:\NF10(DIV).ASM

```


MOV DX,10
MOV AH,2
INT 21H
MOV DX,13
MOV AH,2
INT 21H

MOV DX,R          ;PRINT REMAINDER
ADD DX,4B
MOV AH,2
INT 21H

MOV AH,4CH
INT 21H
MAIN ENDP
END MAIN

```

F1=Help Line:44 Col:1



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

C:\>

C:\>EDIT F10(DIV).ASM

C:\>MASM F10(DIV).ASM;

Microsoft (R) Macro Assembler Version 5.00  
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51688 + 464856 Bytes symbol space free

0 Warning Errors  
0 Severe Errors

C:\>LINK F10(DIV).OBJ;

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

C:\>F10(DIV).EXE

5  
2

NAME: ZEHRA MOHAMMAD TAQI  
SEAT NO: B21110006167

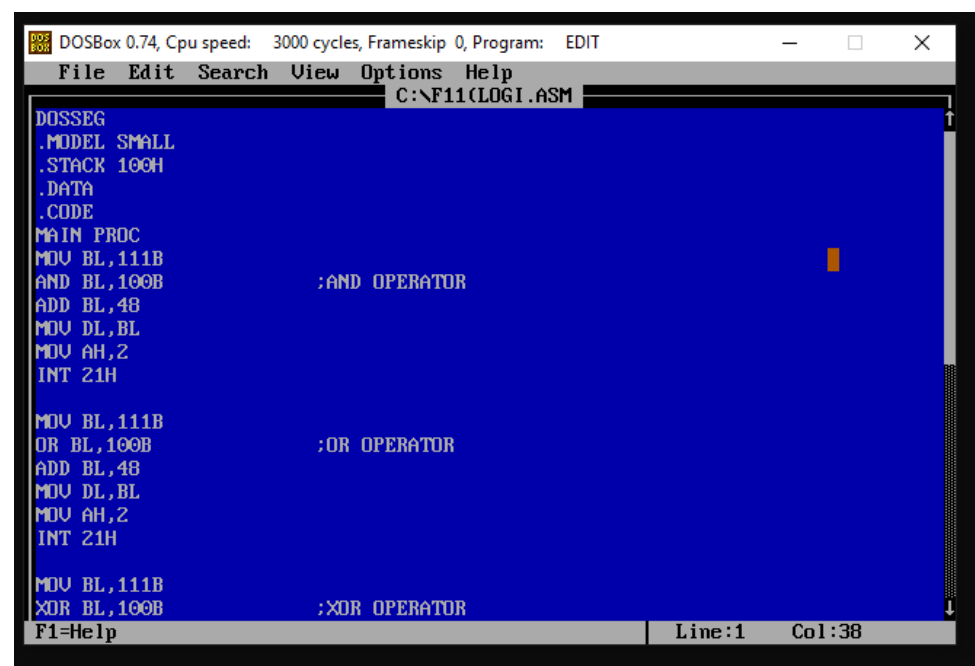
# PRACTISE OF OR, AND, XOR:

```
DOSSEG
.MODEL SMALL
.STACK 100H
.DATA
.CODE
MAIN PROC
MOV BL,111B
AND BL,100B           ;AND OPERATOR
ADD BL,48
MOV DL,BL
MOV AH,2
INT 21H

MOV BL,111B
OR BL,100B            ;OR OPERATOR
ADD BL,48
MOV DL,BL
MOV AH,2
INT 21H

MOV BL,111B
XOR BL,100B           ;XOR OPERATOR
ADD BL,48
MOV DL,BL
MOV AH,2
INT 21H

MOV AH,4CH
INT 21H
MAIN ENDP
END MAIN
```



NAME: ZEHRA MOHAMMAD TAQI  
SEAT NO: B21110006167

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

File Edit Search View Options Help

C:\F11(LOGIC).ASM

ADD BL,48  
MOV DL,BL  
MOV AH,2  
INT 21H  
  
MOV AH,4CH  
INT 21H  
MAIN ENDP  
END MAIN

F1=Help

Line:44 Col:1

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

C:\>

C:\>

C:\>EDIT F11(LOGIC).ASM

C:\>MASM F11(LOGIC).ASM;  
Microsoft (R) Macro Assembler Version 5.00  
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51680 + 464864 Bytes symbol space free

0 Warning Errors  
0 Severe Errors

C:\>LINK F11(LOGIC).OBJ;

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

C:\>F11(LOGIC).EXE  
473

NAME: ZEHRA MOHAMMAD TAQI  
SEAT NO: B21110006167

# YOUR CODE AS DISCUSSED IN CLASS:

```
DOSSEG
.MODEL SMALL
.STACK 100H
.DATA
MES DB ':DIVIDED BY 17 (QUOTIENT):$'
Q DW ?

.CODE
MAIN PROC
MOV AX,@DATA
MOV DS,AX
MOV BX,011B
AND BX,010B           ;BINARY NUMBER FOR 2
MOV CX,8               ;COUNTER
MOV DX,BX
ADD DX,48

L1:
MOV AH,2               ;PRINT NUMBER
INT 21H
MOV AX,17               ;DIVIDEND
MOV DX,0
DIV BX                 ;DIVIDE
MOV Q,AX               ;MOVING VALUE OF QUOTIENT IN Q
MOV DX,OFFSET MES      ;PRINT STRING MESSAGE
MOV AH,9
INT 21H
MOV DX,Q               ;PRINT QUOTIENT
ADD DX,48
MOV AH,2
INT 21H

MOV DX,10               ;NEWLINE FEED
MOV AH,2
INT 21H
MOV DX,13               ;CARRIAGE RETURN
MOV AH,2
INT 21H

INC BX                  ;INCREMENT
MOV DX,BX
ADD DX,48

LOOP L1
MOV AH,4CH
INT 21H
MAIN ENDP
END MAIN
```

NAME: ZEHRA MOHAMMAD TAQI  
SEAT NO: B21110006167

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

File Edit Search View Options Help

C:\NF12(OWN).ASM

DOSSEG  
.MODEL SMALL  
.STACK 100H  
.DATA  
MES DB ' :DIVIDED BY 17(QUOTIENT):\$'  
Q DW ?  
  
.CODE  
MAIN PROC  
MOV AX,@DATA  
MOV DS,AX  
MOV BX,011B  
AND BX,010B ;BINARY NUMBER FOR 2  
MOV CX,8 ;COUNTER  
MOV DX,BX  
ADD DX,48  
  
L1:  
MOV AH,2 ;PRINT NUMBER  
INT 21H  
MOV AX,17 ;DIVIDEND  
MOV DX,0

F1=Help

Line:1 Col:33

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

File Edit Search View Options Help

C:\NF12(OWN).ASM

DIV BX ;DIVIDE  
MOV Q,AX ;MOVING VALUE OF QUOTIENT IN Q  
MOV DX,OFFSET MES ;PRINT STRING MESSAGE  
MOV AH,9  
INT 21H  
MOV DX,Q ;PRINT QUOTIENT  
ADD DX,48  
MOV AH,2  
INT 21H  
  
MOV DX,10 ;NEWLINE FEED  
MOV AH,2  
INT 21H  
MOV DX,13 ;CARRIAGE RETURN  
MOV AH,2  
INT 21H  
  
INC BX ;INCREMENT  
MOV DX,BX  
ADD DX,48

F1=Help

Line:41 Col:33

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

File Edit Search View Options Help

C:\NF12(OWN).ASM

LOOP L1  
MOV AH,4CH  
INT 21H  
MAIN ENDP  
END MAIN

F1=Help

Line:64 Col:33

NAME: ZEHRA MOHAMMAD TAQI  
SEAT NO: B21110006167

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51650 + 464894 Bytes symbol space free

0 Warning Errors
0 Severe Errors

C:\>LINK F12(OWN).OBJ;

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

C:\>F12(OWN).EXE
2:DIVIDED BY 17(QUOTIENT):8
3:DIVIDED BY 17(QUOTIENT):5
4:DIVIDED BY 17(QUOTIENT):4
5:DIVIDED BY 17(QUOTIENT):3
6:DIVIDED BY 17(QUOTIENT):2
7:DIVIDED BY 17(QUOTIENT):2
8:DIVIDED BY 17(QUOTIENT):2
9:DIVIDED BY 17(QUOTIENT):1
```