```
Task 1:
.model small
.stack
.data
row db 48
col db 48
arr db 65,66,67,68,69,70,71,72,73,74,75,76,77,78,79
.code
mov ax,@data
mov ds,ax
mov bx,offset arr
add bx, 5*2
mov si,1
mov al,[bx+si]
mov dl,al
mov ah,02
int 21h
mov bx,0
mov bx,offset arr
add bx, 5*1
mov si,3
mov al,[bx+si]
mov dl,al
mov ah,02
int 21h
exit:
mov ah,4ch
int 21h
```

end

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
                                                                                     \times
Libraries [.lib]:
Definitions File [nul.def]:
LINK : warning L4038: program has no starting address
C:\>lab7a1
C:\>ml lab7a1.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993. All rights reserved.
 Assembling: lab7a1.asm
Microsoft (R) Segmented Executable Linker Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984–1992. All rights reserved.
Object Modules [.obj]: lab7a1.obj
Run File [lab7a1.exe]: "lab7a1.exe"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:
LINK : warning L4038: program has no starting address
C:\>lab7a1
LI
C:\>
TASK2:
.model small
.stack
.data
arr db 49,50,51,52,53,54,55,56,57
.code
mov ax,@data
mov ds.ax
mov bx.3
mov si,offset arr
mov cx,3
11:
push cx
mov cx,bx
12:
mov dl,[si]
mov ah,02
int 21h
inc si
loop 12
MOV dl, 10
MOV ah, 02h
```

INT 21h MOV dl, 13 MOV ah, 02h INT 21h pop cx loop l1

exit:

mov ah,4ch int 21h

end

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
                                                                                 X
C:\>ml lab7a1.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993. All rights reserved.
 Assembling: lab7a1.asm
Microsoft (R) Segmented Executable Linker Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984-1992. All rights reserved.
Object Modules [.obj]: lab7a1.obj
Run File [lab7a1.exe]: "lab7a1.exe"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:
LINK : warning L4038: program has no starting address
C:\>lab7a1\\\\\\\
Illegal command: lab7a1\\\\\\.
C:\>lab7a1
123
456
789
C:\>
TASK3:
```

.model small

.stack

.data

:1:49

:2:50

;3:51

;4:52

;5:53

;6:54

;7:55

;8:56

,0.50

;9:57

mat1 db 49,54,50,52,53,51,57,55,49 mat2 db 55,50,53,52,49,50,48,50,51 res db 9 dup(?) .code mov ax,@data mov ds,ax mov si,0 mov di,0 mov cx,9 mov al,mat1[si] add al,mat2[si] mov res[di],al inc si inc di loop l mov bx,3

mov si,offset res mov cx,3 11: push cx mov cx,bx 12: mov dl,[si] sub d1,48 mov ah,02 int 21h inc si loop 12 MOV dl, 10 MOV ah, 02h INT 21h MOV dl, 13 MOV ah, 02h INT 21h pop cx loop 11

exit: mov ah,4ch int 21h end

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
                                                                                    \times
865
993
C:\>ml lab7a1.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993. All rights reserved.
 Assembling: lab7a1.asm
Microsoft (R) Segmented Executable Linker Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984–1992. All rights reserved.
Object Modules [.obj]: lab7a1.obj
Run File [lab7a1.exe]: "lab7a1.exe"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:
LINK : warning L4038: program has no starting address
C:\>lab7a1
887
865
994
C:\>
```

TASK 4:

.model small

.stack

.data

msg1 db 'Coal lab\$' msg2 db 'FALL 2021\$' msg3 db 'SECTION T\$' .code

main proc mov ax,@data mov ds,ax mov dx,0 lea dx, msg1 mov ah,09h int 21h

call enter1

mov dx,0 lea dx, msg2 mov ah,09h int 21h

call enter1 mov dx,0 lea dx, msg3 mov ah,09h int 21h

mov ah,4ch int 21h

main endp

enter1 proc

MOV dl, 10 MOV ah, 02h INT 21h

MOV dl, 13 MOV ah, 02h INT 21h

ret enter1 endp

end main

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
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            ê9∑♥¿9¶ ↑ #9
                                                   qąÑΘć∥ ì₌Л -
                                                                         =! \varphi \cdot | \int - |
=!ō* || ì=! | =!|L=!||
|B=!| Coal lab
.
C:\>ml lab7a1.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993. All rights reserved.
 Assembling: lab7a1.asm
Microsoft (R) Segmented Executable Linker Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984-1992. All rights reserved.
Object Modules [.obj]: lab7a1.obj
Run File [lab7a1.exe]: "lab7a1.exe"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:
C:\>lab7a1
Coal lab
FALL 2021
SECTION T
C:\>
```