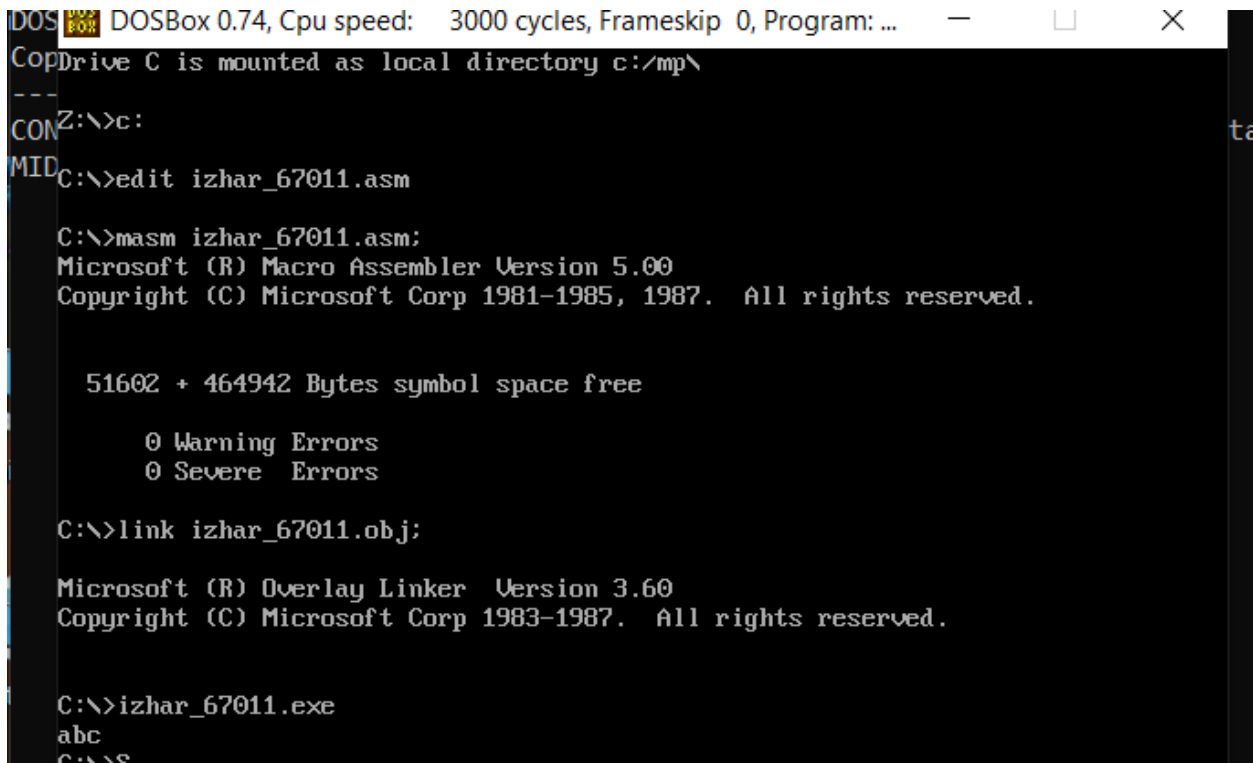


LAB TASK 1:



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

Drive C is mounted as local directory c:/mp\

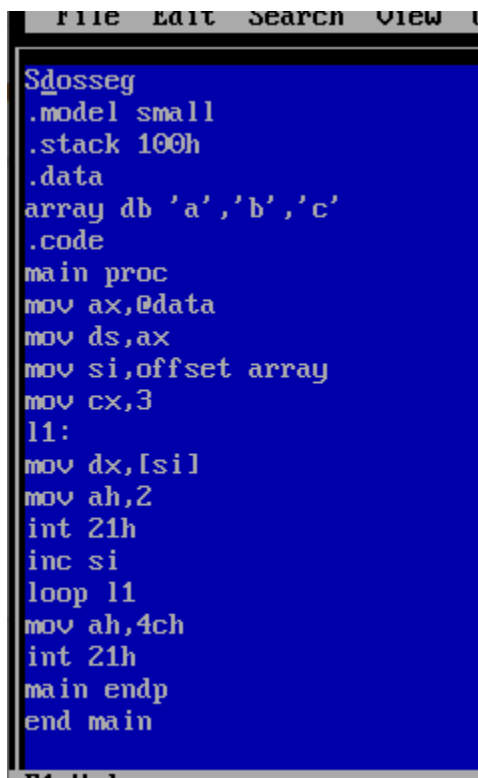
Z:\>c:
C:\>edit izhar_67011.asm
C:\>masm izhar_67011.asm:
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51602 + 464942 Bytes symbol space free

0 Warning Errors
0 Severe Errors

C:\>link izhar_67011.obj:
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

C:\>izhar_67011.exe
abc
C:\>



File Edit Search View

```
Sdosseg  
.model small  
.stack 100h  
.data  
array db 'a','b','c'  
.code  
main proc  
mov ax,@data  
mov ds,ax  
mov si,offset array  
mov cx,3  
l1:  
mov dx,[si]  
mov ah,2  
int 21h  
inc si  
loop l1  
mov ah,4ch  
int 21h  
main endp  
end main
```

F4-Help

TASK 2:

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: ...
File Edit Search View Options Help
C:\67011_T2.ASM
dosseg
.model small
.stack 100h
.data
array db 100 dup('$')
.code
main proc
mov ax,@data
mov dx,ax
mov si,offset array
l1:
mov ah,1
int 21h
cmp al,13
je program
mov [si],al
inc si
jmp l1
program:
mov dx,offset array
mov ah,9
int 21h S_
```

```
C:\>edit 67011_t2.asm

C:\>masm 67011_t2.asm;
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51648 + 464896 Bytes symbol space free

0 Warning Errors
0 Severe Errors

C:\>link 67011_t2.obj;

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

C:\>67011_t2.exe
hello
```

TASK 3:

```

dosseg
.model small
.stack 100h
.data
.code
main proc
mov ax,'1'
mov bx,'2'
push ax
push bx
pop ax
pop bx
mov dx,ax
mov ah,2
int 21h
mov dx,bx
mov ah,2
int 21h
mov ah,4ch
int 21h
main endp
end mainS_
F1=Help

```

```

C:\>edit 67011_t2.asm

C:\>edit 67011_t3.asm

C:\>masm 67011_t3.asm:
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51690 + 464854 Bytes symbol space free

0 Warning Errors
0 Severe Errors

C:\>link 67011_t3.obj;

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

C:\>67011_t3.exe
21

```

TASK 4:

```

C:\>67011_t3.exe
21
C:\>edit 67011_t4.asm

C:\>masm 67011_t4.asm;
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51612 + 464932 Bytes symbol space free

0 Warning Errors
0 Severe Errors

C:\>link 67011_t4.obj;

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

C:\>67011_t4.exe
hzi

```

```

File Edit Search View Opt
Sdosseg
.model small
.stack 100h
.data
string db 'izhar'
.code
main proc
mov ax,@data
mov ds,ax
mov si,offset string
mov cx,3
l1:
mov bx,[si]
push bx
inc si
loop l1
mov cx,3
l2:
pop dx
mov ah,2
int 21h
loop l2
F1=Help

```

```
mov cx,3
l1:
mov bx,[si]
push bx
inc si
loop l1
mov cx,3
l2:
pop dx
mov ah,2
int 21h
loop l2
mov ah,4ch
int 21h
main endp
end main
```

TASK 5:

```
mov ax,'1'
mov bx,'2'
push ax
push bx
pop ax
pop bx|
```

TASK 6:

```
C:\>masm 67011_t6.asm;
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.
```

```
51690 + 464854 Bytes symbol space free
```

```
0 Warning Errors
```

```
0 Severe Errors
```

```
C:\>link 67011_t6.obj;
```

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

```
C:\>67011_t6.exe
```

```
*
```

```
***
```

```
****
```

```
*****
```

```
*****
```

File Edit Search

Sdosseg

.model small

.stack 100h

.data

.code

main proc

mov bx,1

mov cx,5

l1:

push cx

mov cx,bx

l2:

mov dl,'*'

mov ah,2

int 21h

loop l2

mov dx,10

mov ah,2

int 21h

mov dx,13

mov ah,2

int 21h

F1=Help

```

l1:
push cx
mov cx,bx
l2:
mov dl,'*'
mov ah,2
int 21h
loop l2
mov dx,10
mov ah,2
int 21h
mov dx,13
mov ah,2
int 21h
inc bl
pop cx
loop l1
mov ah,4ch
int 21h
main endp
end main

```

TASK 7:

```

dosseg
.model small
.stack 100h
.data
.code
main proc
mov ax,@data
mov ds,ax
mov bx,1
mov cx,5
loop l1:
push cx
mov cx,bx
mov dl,'a'
loop l2:
mov ah,2
int 21h
mov dl,' '
int 21h
inc dl
loop l1
mov dl,150
F1=Heln

```

```

mov dl,'a'
loop l2:
mov ah,2
int 21h
mov dl,' '
int 21h
inc dl
loop l1
mov dl,10
mov ah,2
int 21h
mov dl,13
mov ah,2
int 21h
inc bl
pop cx
loop l2
mov ah,4ch
int 21h
main endp
end main

```

C:\>edit 67011_t6.asm

C:\>edit 67011_t7.asm

C:\>masm 67011_t7.asm:

Microsoft (R) Macro Assembler Version 5.00

Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

67011_t7.asm(11): error A2009: Symbol not defined: L1

67011_t7.asm(15): error A2009: Symbol not defined: L2

67011_t7.asm(21): error A2009: Symbol not defined: L1

67011_t7.asm(30): error A2009: Symbol not defined: L2

51652 + 464892 Bytes symbol space free

0 Warning Errors

4 Severe Errors

C:\>edit 67011_t7.asm

C:\>S_

