

## Task 1:

DOSBox 0.74, Cpu speed: 3000 cycles, Frames... File Edit Search View Options Help C:\T1\_L6.ASM

```
dosseg
.model small
.stack 100h
.data
.code
main proc
mov cx,10
mov dx,48
11:
mov ah,2
int 21h
add dx,1
loop 11
mov ah,4ch
int 21h
main endp
end main
```

F1=Help | Line:1 Col:1

DOSBox 0.74, Cpu speed: 3000 cycles, Frames... — X

```
0 Warning Errors
1 Severe Errors
```

C:\>edit t1\_l6.asm

C:\>masm t1\_l6.asm;
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51710 + 464834 Bytes symbol space free

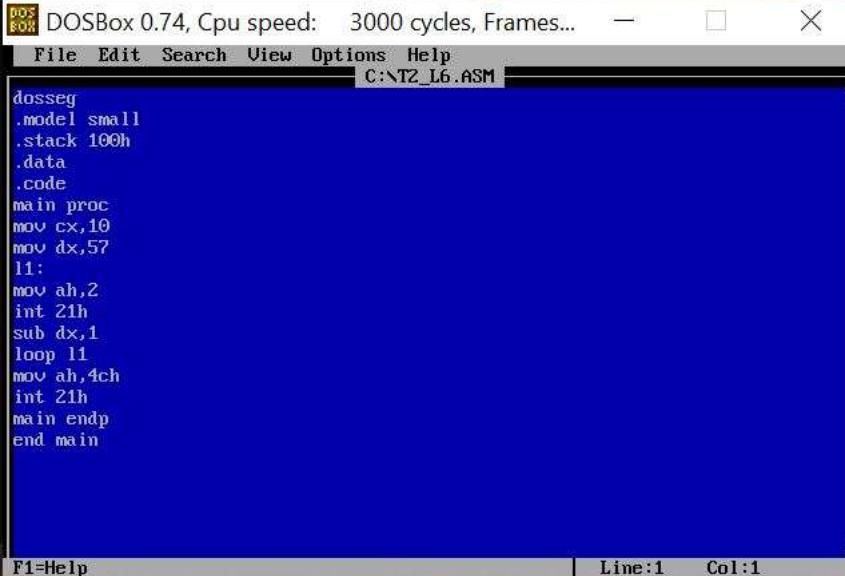
```
0 Warning Errors
0 Severe Errors
```

C:\>link t1\_l6.obj;

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

C:\>t1\_l6.exe
0123456789
C:\>\

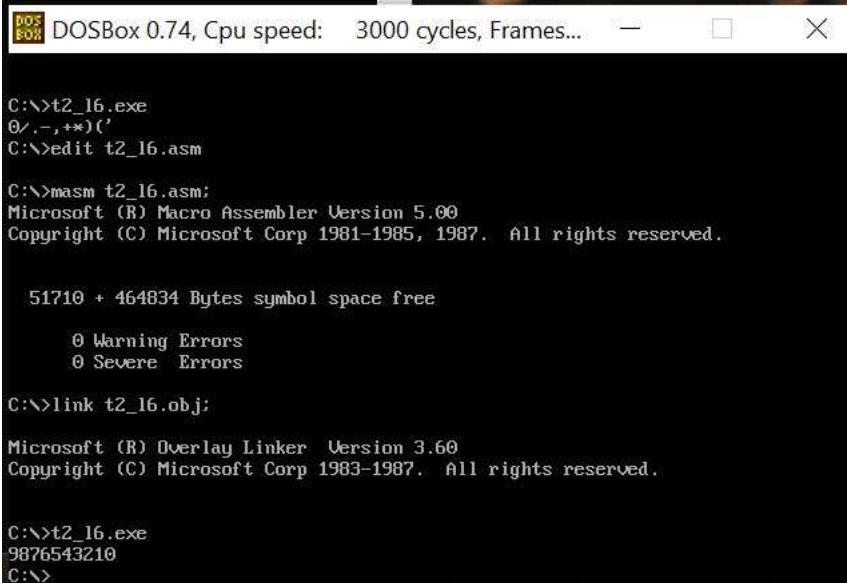
Task 2:



DOSBox 0.74, Cpu speed: 3000 cycles, Frames... File Edit Search View Options Help C:\NT2\_L6.ASM

```
dosseg
.model small
.stack 100h
.data
.code
main proc
mov cx,10
mov dx,57
11:
mov ah,2
int 21h
sub dx,1
loop 11
mov ah,4ch
int 21h
main endp
end main
```

F1=Help | Line:1 Col:1



```
C:\>t2_16.exe
0/-.-,++)('
C:\>edit t2_16.asm

C:\>masm t2_16.asm;
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51710 + 464834 Bytes symbol space free

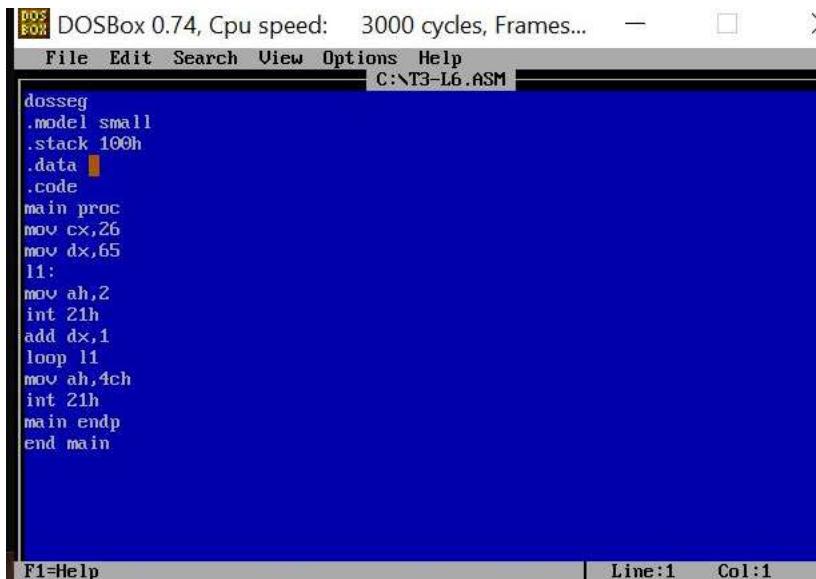
0 Warning Errors
0 Severe Errors

C:\>link t2_16.obj;

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

C:\>t2_16.exe
9876543210
C:\>
```

### Task 3:



DOSBox 0.74, Cpu speed: 3000 cycles, Frames... — >

File Edit Search View Options Help

C:\NT3-L6.ASM

```
dosseg
.model small
.stack 100h
.data
.code
main proc
mov cx,26
mov dx,65
l1:
mov ah,2
int 21h
add dx,1
loop l1
mov ah,4ch
int 21h
main endp
end main
```

F1=Help | Line:1 Col:1



```
DOSBox 0.74, Cpu speed: 3000 cycles, Frames... — >
```

```
C:>edit t3_16.asm
C:>edit t3-16.asm
C:>edit t3-16.asm
C:>masm t3-16.asm
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51710 + 464834 Bytes symbol space free
0 Warning Errors
0 Severe Errors
C:>link t3-16.obj;
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

C:>t3-16.exe
ABCDEFGHIJKLMNOPQRSTUVWXYZ
C:>_
```

## Task 4:

DOSBox 0.74, Cpu speed: 3000 cycles, Frames... File Edit Search View Options Help C:\NT4-L6.ASM

```
dosseg
.model small
.stack 100h
.data
.code
main proc
mov cx,26
mov dx,65
l1:
mov ah,2
int 21h
add dx,1
loop l1
mov dx,10
mov ah,2
int 21h
mov cx,26
mov dx,97
l2:
mov ah,2
int 21h
add dx,1
F1=Help
```

Line:1 Col:1

DOSBox 0.74, Cpu speed: 3000 cycles, Frames... C:\>t3-16.exe ABCDEFGHIJKLMNOPQRSTUVWXYZ C:\>edit t4-16.asm

```
C:\>masm t4-16.asm;
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51710 + 464834 Bytes symbol space free

0 Warning Errors
0 Severe Errors
```

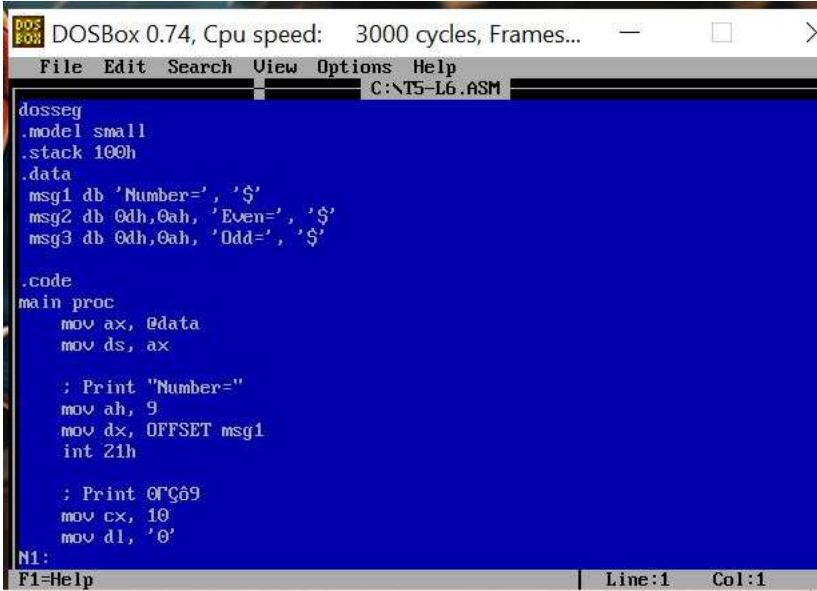
C:\>link t4-16.obj;

```
Microsoft (R) Overlay Linker Version 3.60
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```

C:\>t4-16.exe

```
ABCDEFGHIJKLMNPQRSTUVWXYZ
abcdefghijklmnpqrstuvwxyz
0123456789
```

## Task 5:



DOSBox 0.74, Cpu speed: 3000 cycles, Frames... — X

File Edit Search Options Help C:\T5-L6.ASM

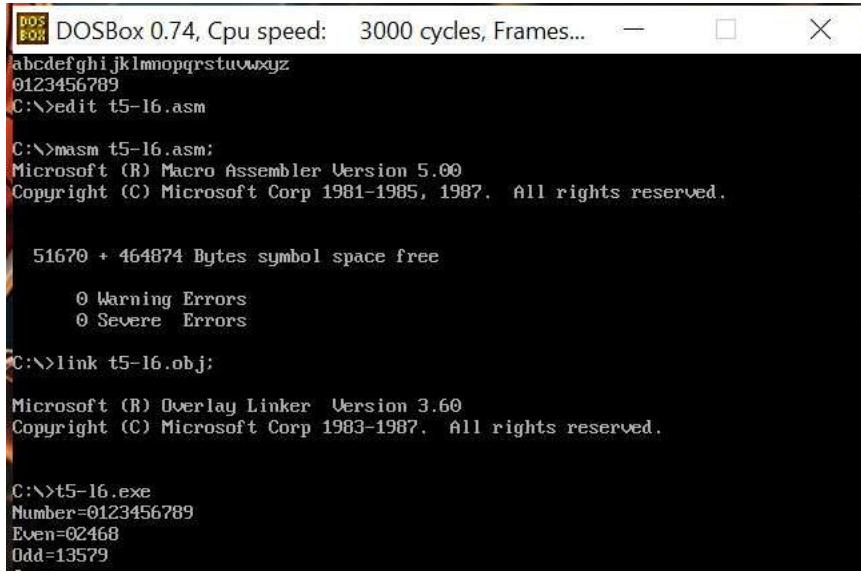
```
dosseg
.model small
.stack 100h
.data
msg1 db 'Number= ', '$'
msg2 db 0dh,0ah, 'Even= ', '$'
msg3 db 0dh,0ah, 'Odd= ', '$'

.code
main proc
    mov ax, @data
    mov ds, ax

    ; Print "Number="
    mov ah, 9
    mov dx, OFFSET msg1
    int 21h

    ; Print 0F09
    mov cx, 10
    mov dl, '0'
M1:
```

F1=Help | Line:1 Col:1



DOSBox 0.74, Cpu speed: 3000 cycles, Frames... — X

```
abcdefgijklmnopqrstuvwxyz
0123456789
C:\>edit t5-16.asm

C:\>masm t5-16.asm
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

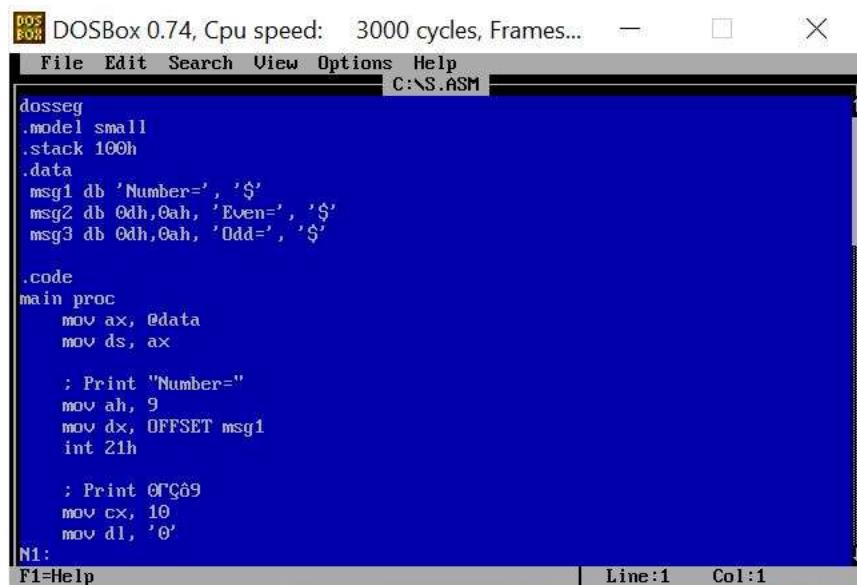
51670 + 464874 Bytes symbol space free

0 Warning Errors
0 Severe Errors

C:\>link t5-16.obj:
Microsoft (R) Overlay Linker Version 3.60
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C:\>t5-16.exe
Number=0123456789
Even=02468
Odd=13579
```

Task 6:



DOSBox 0.74, Cpu speed: 3000 cycles, Frames... File Edit Search View Options Help C:\S.ASM

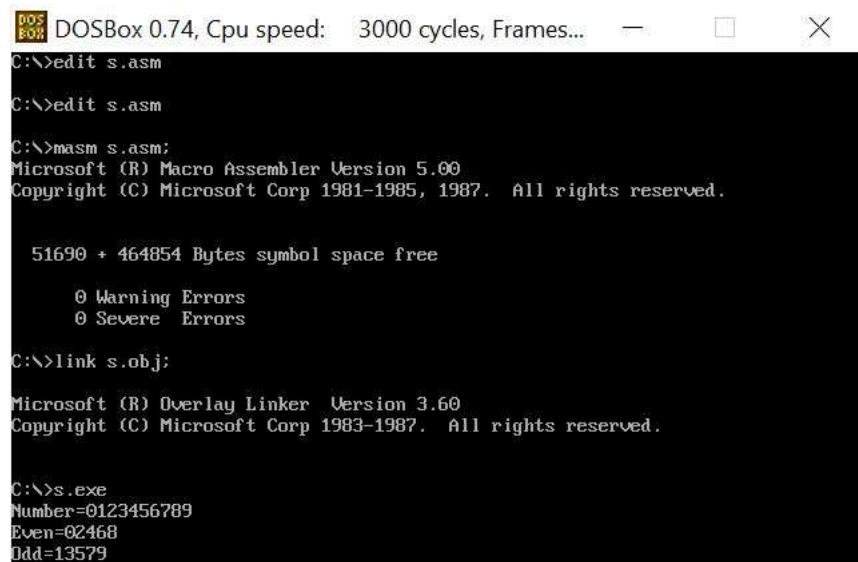
```
dosseg
.model small
.stack 100h
.data
msg1 db 'Number=', '$'
msg2 db 0dh,0ah, 'Even=', '$'
msg3 db 0dh,0ah, 'Odd=', '$'

.code
main proc
    mov ax, @data
    mov ds, ax

    ; Print "Number="
    mov ah, 9
    mov dx, OFFSET msg1
    int 21h

    ; Print 0r969
    mov cx, 10
    mov dl, '0'
N1:
```

F1=Help | Line:1 Col:1



```
C:\>edit s.asm
C:\>edit s.asm
C:\>masm s.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 s.obj;
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

C:\>s.exe
Number=0123456789
Even=02468
Odd=13579
```