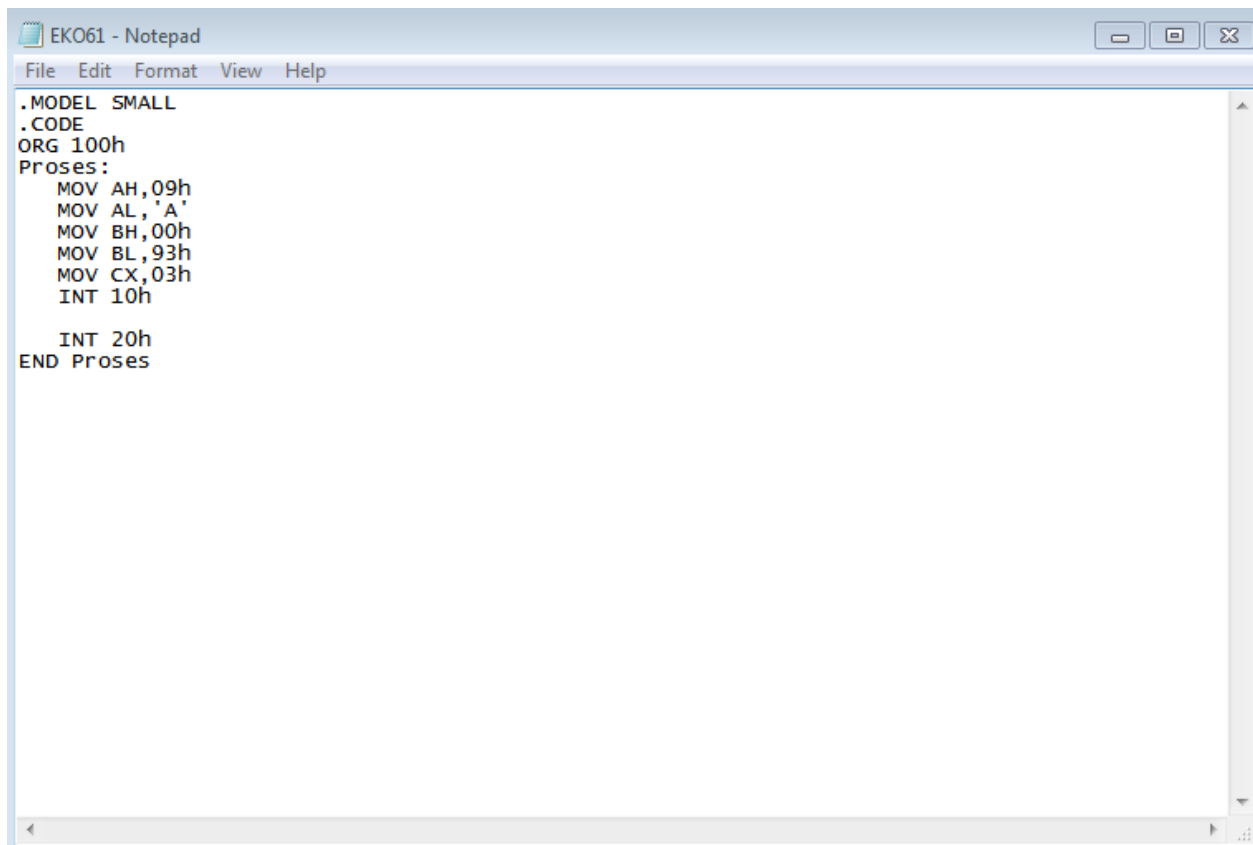


LAPORAN PRAKTIKUM
DASAR SISTEM KOMPUTER



DISUSUN OLEH:
EKO RACHMAT SATRIYO (2100018142)
JUM'AT 07.30-KELAS C

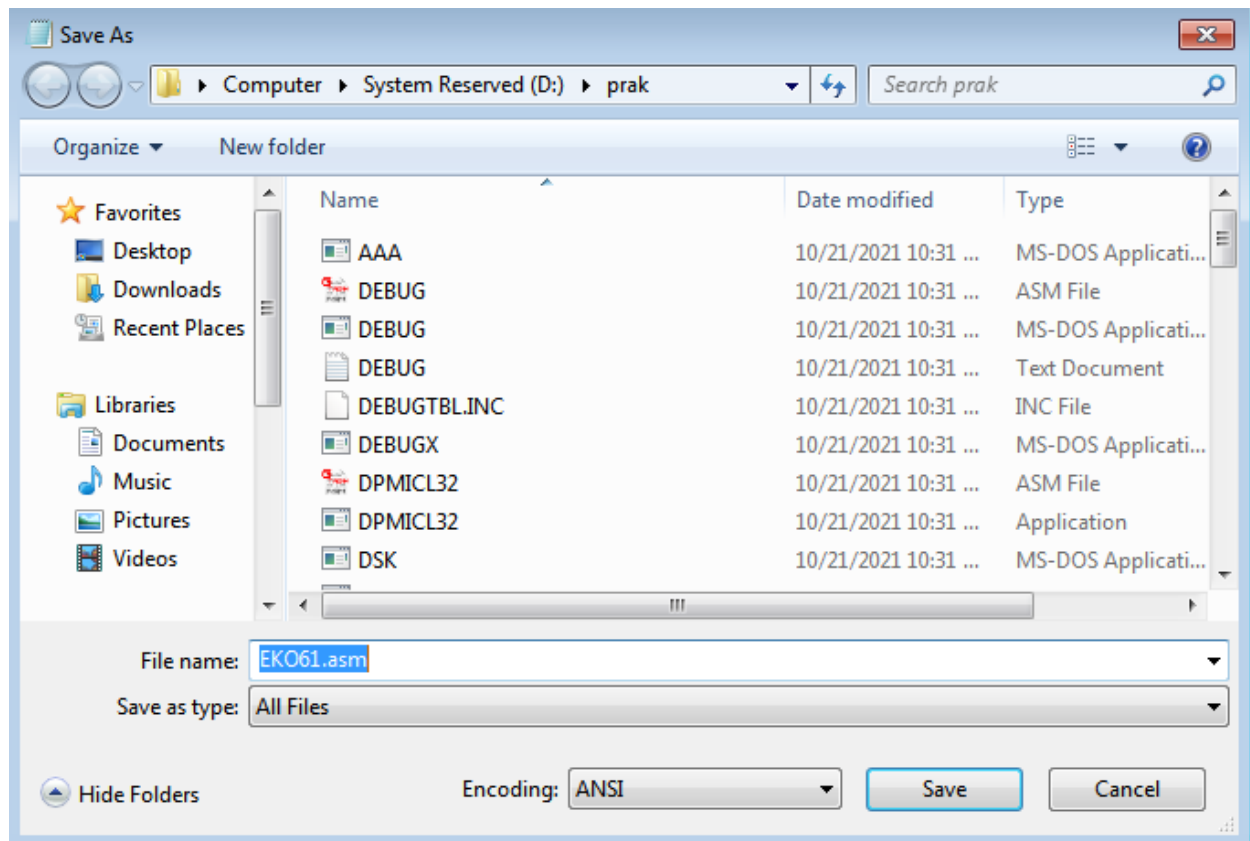
PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS TEKNOLOGI INDUSTRI
UNIVERSITAS AHMAD DAHLAN
OKTOBER 201



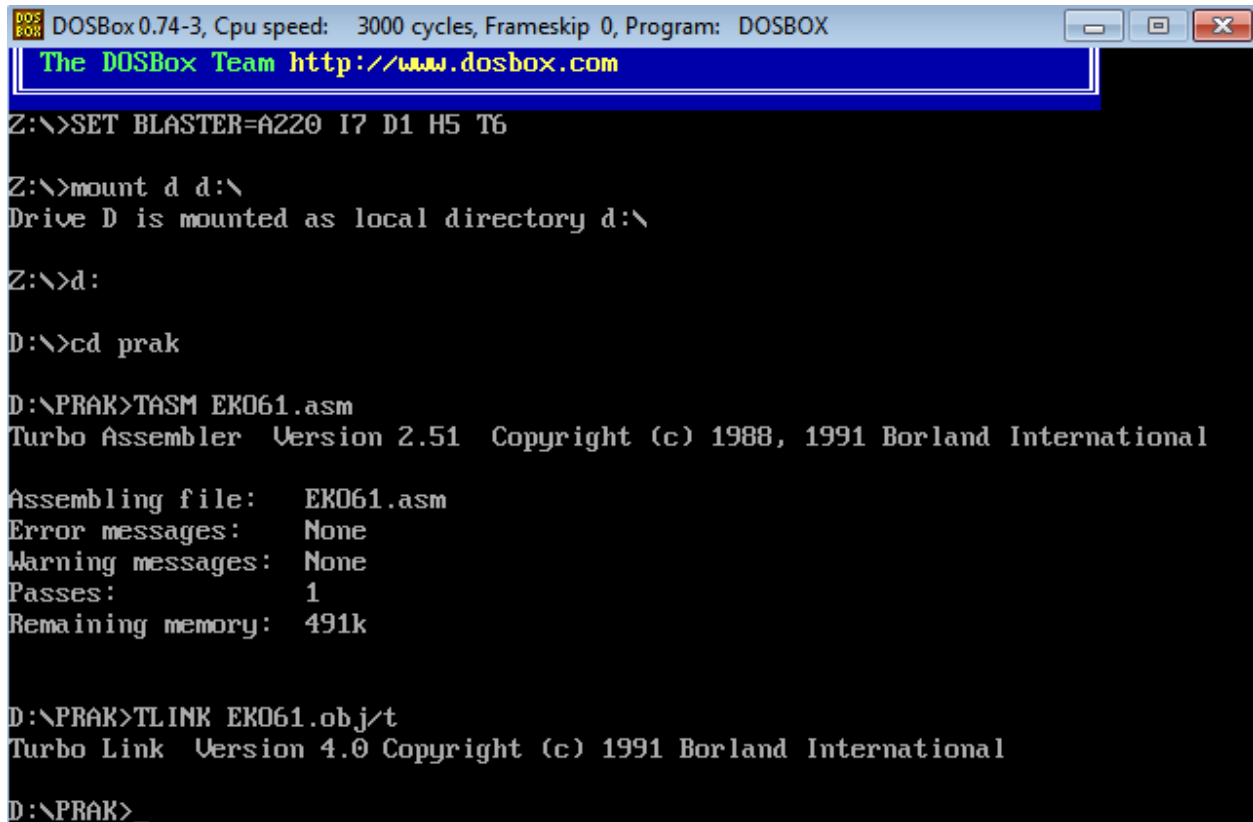
```
.MODEL SMALL
.CODE
.ORG 100h
Proses:
    MOV AH,09h
    MOV AL,'A'
    MOV BH,00h
    MOV BL,93h
    MOV CX,03h
    INT 10h

    INT 20h
END Proses
```

Menuliskan program pada modul



Menyimpan program

A screenshot of a DOSBox window. The title bar reads "DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX". Below the title bar is a blue banner with the text "The DOSBox Team http://www.dosbox.com". The main window area is black with white text. The text shows a series of commands and their outputs: "Z:\>SET BLASTER=A220 I7 D1 H5 T6", "Z:\>mount d d:\", "Drive D is mounted as local directory d:\", "Z:\>d:", "D:\>cd prak", "D:\PRAK>TASM EKO61.asm", "Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International", "Assembling file: EKO61.asm", "Error messages: None", "Warning messages: None", "Passes: 1", "Remaining memory: 491k", "D:\PRAK>TLINK EKO61.obj/t", "Turbo Link Version 4.0 Copyright (c) 1991 Borland International", and "D:\PRAK>".

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
The DOSBox Team http://www.dosbox.com
Z:\>SET BLASTER=A220 I7 D1 H5 T6
Z:\>mount d d:\
Drive D is mounted as local directory d:\
Z:\>d:
D:\>cd prak
D:\PRAK>TASM EKO61.asm
Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International
Assembling file: EKO61.asm
Error messages: None
Warning messages: None
Passes: 1
Remaining memory: 491k
D:\PRAK>TLINK EKO61.obj/t
Turbo Link Version 4.0 Copyright (c) 1991 Borland International
D:\PRAK>
```

Mengubah bentuk file menggunakan tasm dan tlink

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
Z:\>SET BLASTER=A220 I7 D1 H5 T6

Z:\>mount d d:\
Drive D is mounted as local directory d:\

Z:\>d:

D:\>cd prak

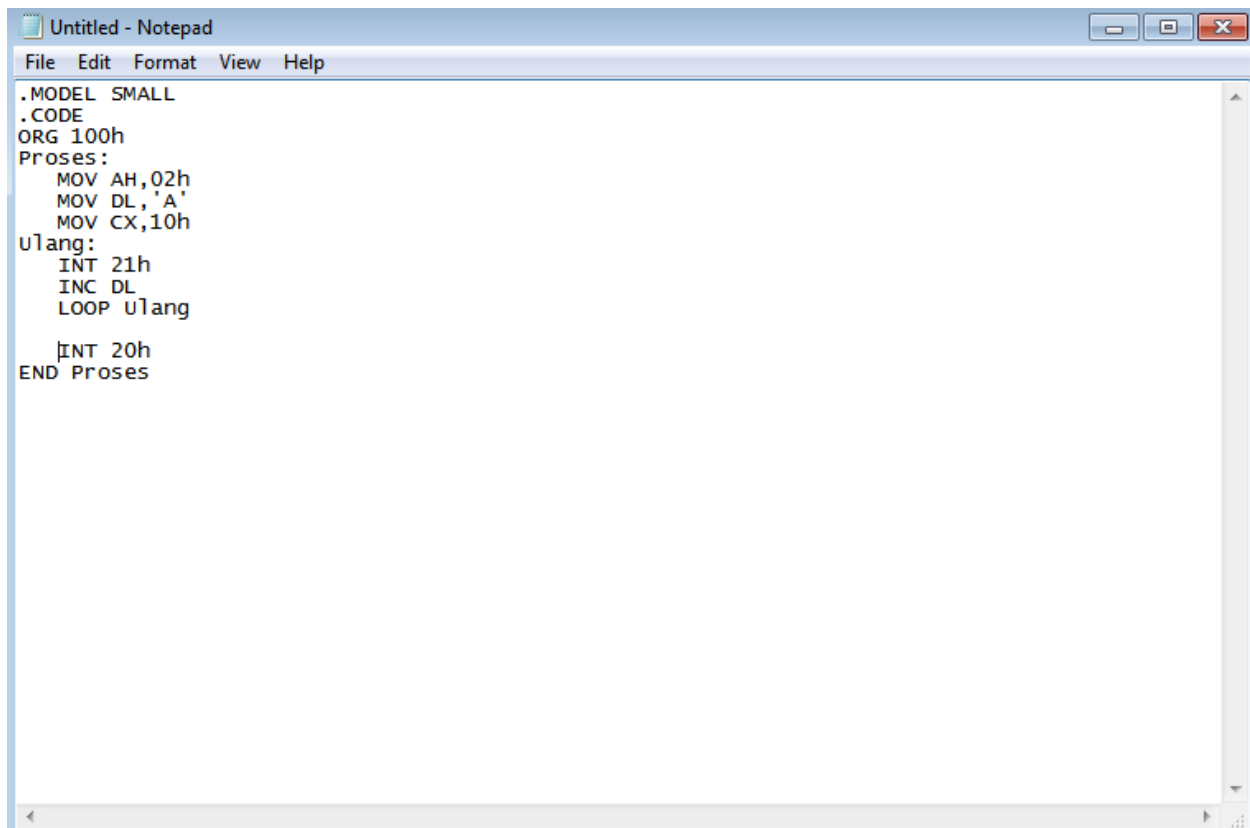
D:\PRAK>TASM EKO61.asm
Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International

Assembling file: EKO61.asm
Error messages: None
Warning messages: None
Passes: 1
Remaining memory: 491k

D:\PRAK>TLINK EKO61.obj/t
Turbo Link Version 4.0 Copyright (c) 1991 Borland International

D:\PRAK>EKO61
AAA
D:\PRAK>
```

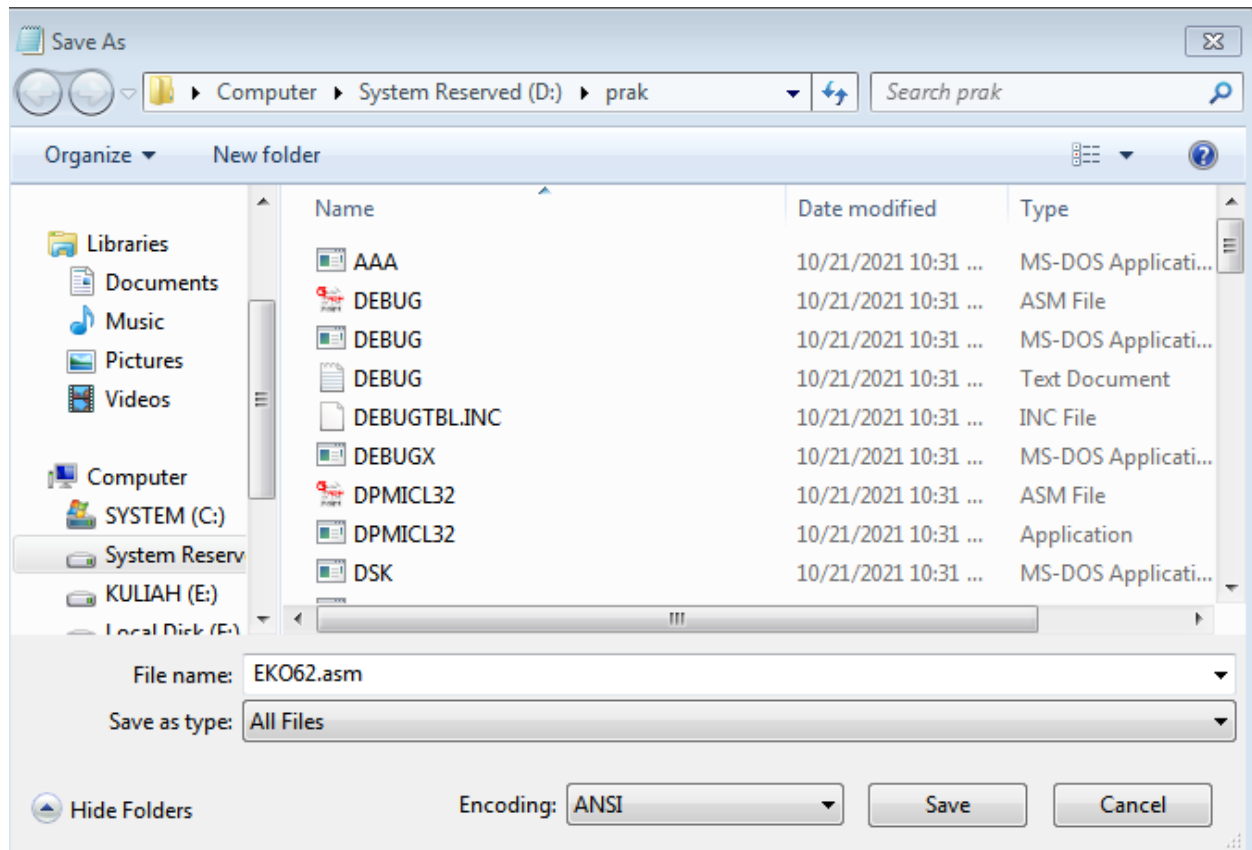
Menjalankan program dan hasilnya



```
Untitled - Notepad
File Edit Format View Help
.MODEL SMALL
.CODE
.ORG 100h
Proses:
    MOV AH,02h
    MOV DL,'A'
    MOV CX,10h
Ulang:
    INT 21h
    INC DL
    LOOP Ulang

    INT 20h
END Proses
```

Menuliskan program



Menyimpan program

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
For more information read the README file in the DOSBox directory.
HAVE FUN!
The DOSBox Team http://www.dosbox.com

Z:\>SET BLASTER=A220 I7 D1 H5 T6

Z:\>MOUNT D D:\
Drive D is mounted as local directory D:\

Z:\>D:

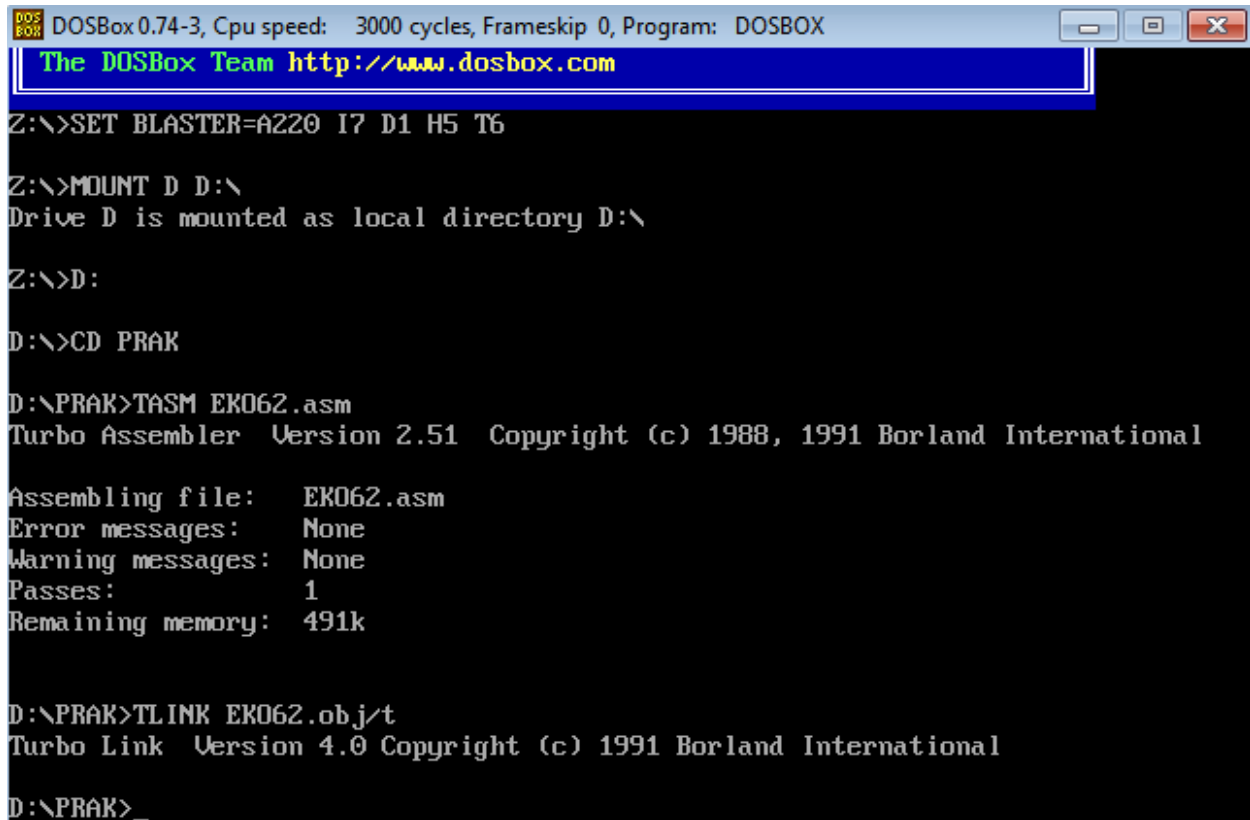
D:\>CD PRAK

D:\PRAK>TASM EK062.asm
Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International

Assembling file: EK062.asm
Error messages: None
Warning messages: None
Passes: 1
Remaining memory: 491k

D:\PRAK>_
```

Mengubah file ke obj mennggunakan tasm



The screenshot shows a DOSBox window with a title bar that reads "DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX". Below the title bar is a blue banner with the text "The DOSBox Team <http://www.dosbox.com>". The main window area is black with white text representing a command prompt. The commands entered are: "Z:\>SET BLASTER=A220 17 D1 H5 T6", "Z:\>MOUNT D D:\", "Z:\>D:", "D:\>CD PRAK", "D:\PRAK>TASM EK062.asm", "D:\PRAK>TLINK EK062.obj/t", and "D:\PRAK>". The output of the TASM command shows "Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International" and assembly statistics: "Assembling file: EK062.asm", "Error messages: None", "Warning messages: None", "Passes: 1", and "Remaining memory: 491k". The output of the TLINK command shows "Turbo Link Version 4.0 Copyright (c) 1991 Borland International".

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
The DOSBox Team http://www.dosbox.com
Z:\>SET BLASTER=A220 17 D1 H5 T6

Z:\>MOUNT D D:\
Drive D is mounted as local directory D:\

Z:\>D:

D:\>CD PRAK

D:\PRAK>TASM EK062.asm
Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International

Assembling file: EK062.asm
Error messages: None
Warning messages: None
Passes: 1
Remaining memory: 491k

D:\PRAK>TLINK EK062.obj/t
Turbo Link Version 4.0 Copyright (c) 1991 Borland International

D:\PRAK>
```

Mengubah file ke .com menggunakan tlink

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
Z:\>SET BLASTER=A220 I7 D1 H5 T6

Z:\>MOUNT D D:\
Drive D is mounted as local directory D:\

Z:\>D:

D:\>CD PRAK

D:\PRAK>TASM EK062.asm
Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International

Assembling file: EK062.asm
Error messages: None
Warning messages: None
Passes: 1
Remaining memory: 491k

D:\PRAK>TLINK EK062.obj/t
Turbo Link Version 4.0 Copyright (c) 1991 Borland International

D:\PRAK>EK062
ABCDEFGHJKLMNPO
D:\PRAK>_
```

Menjalankan dan hasil program

```
Untitled - Notepad
File Edit Format View Help

    ORG 100h
tdata:  jmp proses
        lusername      db 13,10,'Username : $'
        lpassword       db 13,10,'Password : $'
        lditerima       db 13,10,'Diterima $'
        lditolak        db 13,10,'Ditolak $'

        vusername       db 23,?,23 dup(?)
        vpassword       db 23,?,23 dup(?)

proses:
        mov ah,09h
        lea dx,lusername
        int 21h

        mov ah,0ah
        lea dx,vusername
        int 21h

        mov ah,09h
        lea dx,lpassword
        int 21h

        mov ah,0ah
        lea dx,vpassword
        int 21h

        lea si,vusername
        lea di,vpassword

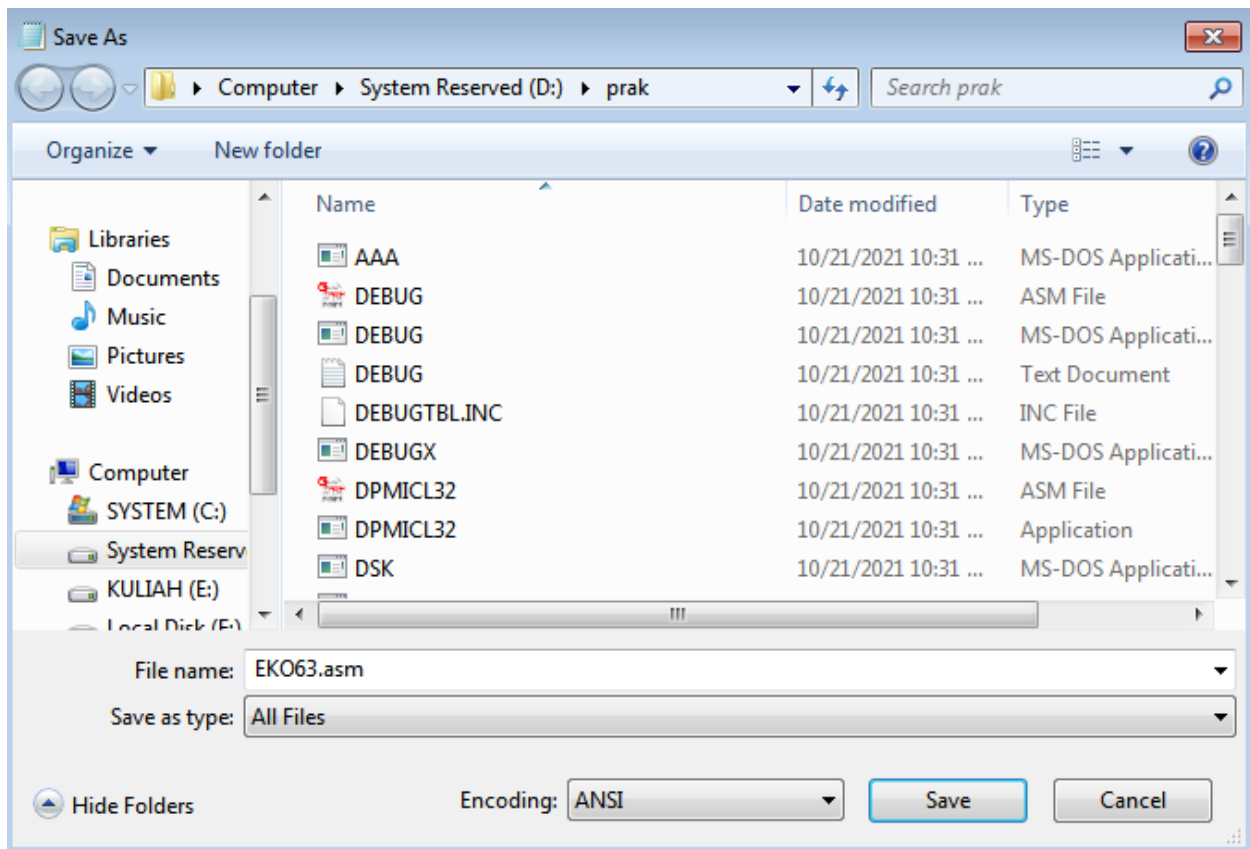
        cld
        mov cx,23
        rep cmpsb
        jne gagal

        mov ah,09h
        lea dx,lditerima
        int 21h
        jmp exit

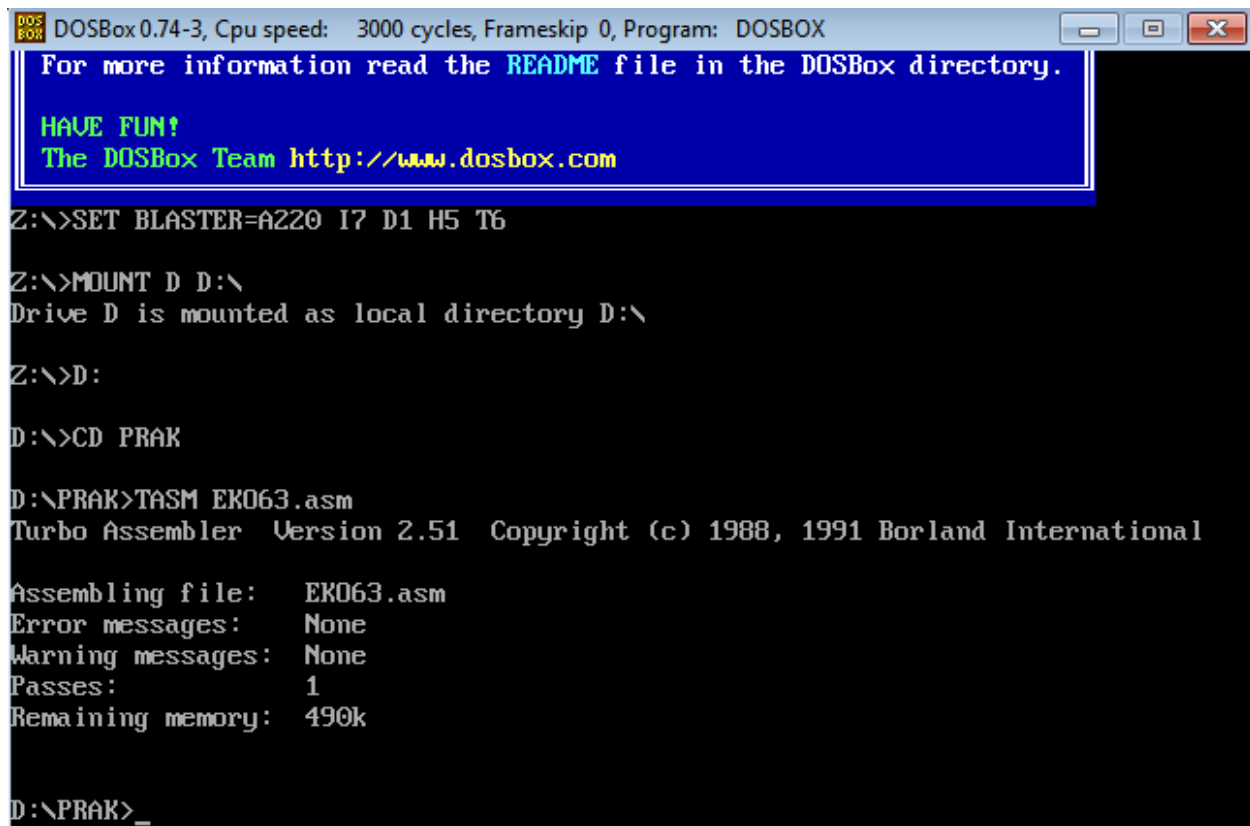
gagal:
        mov ah,09h
        lea dx,lditolak
        int 21h
        jmp proses

exit:
        int 20h
end tdata
```

Menuliskan program



Menyimpan program



DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX

For more information read the [README](#) file in the DOSBox directory.

HAVE FUN!
The DOSBox Team <http://www.dosbox.com>

```
Z:\>SET BLASTER=A220 I7 D1 H5 T6

Z:\>MOUNT D D:\
Drive D is mounted as local directory D:\

Z:\>D:

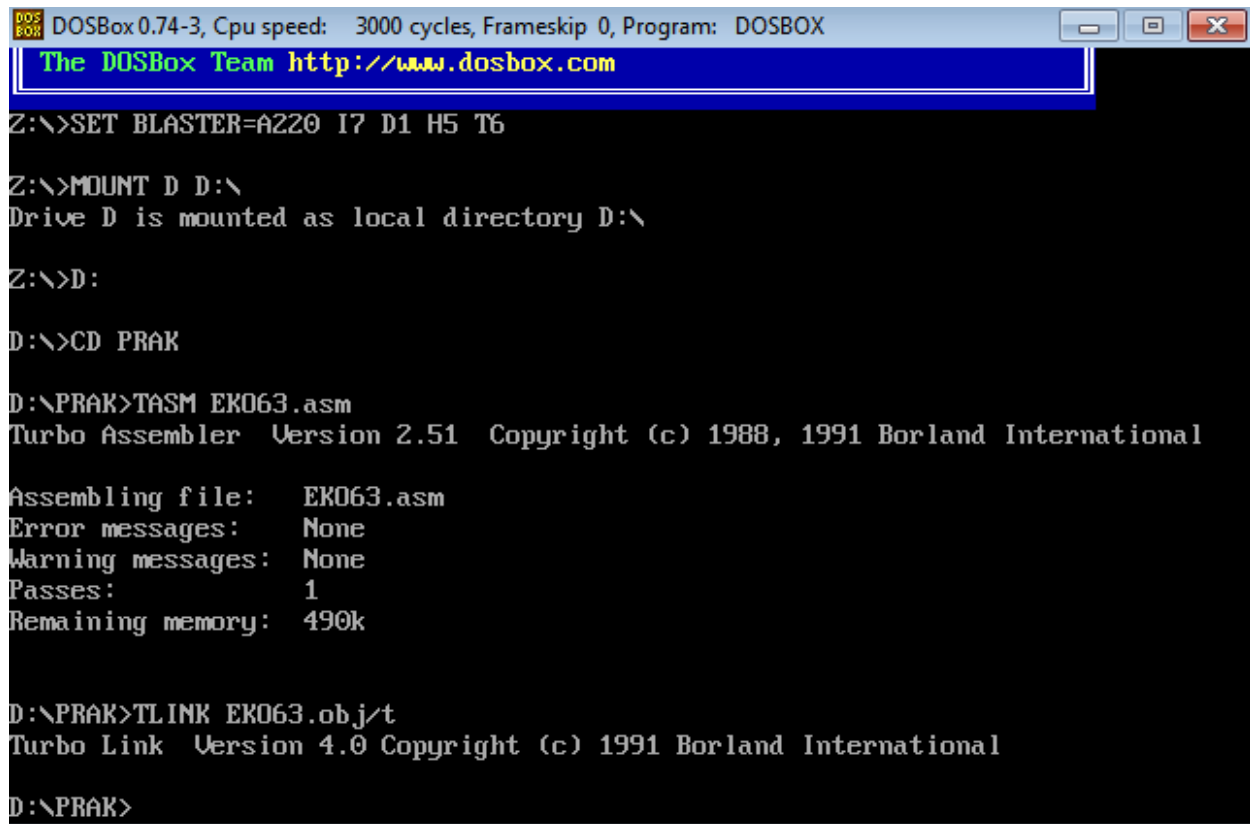
D:\>CD PRAK

D:\PRAK>TASM EKO63.asm
Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International

Assembling file:   EKO63.asm
Error messages:   None
Warning messages: None
Passes:           1
Remaining memory: 490k

D:\PRAK>_
```

Mengubah file ke obj mennggunakan tasm

A screenshot of a DOSBox window. The title bar reads "DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX". Below the title bar is a blue banner with the text "The DOSBox Team <http://www.dosbox.com>". The main window area is black with white text showing a command prompt session. The commands entered are: "Z:\>SET BLASTER=A220 I7 D1 H5 T6", "Z:\>MOUNT D D:\", "Z:\>D:", "D:\>CD PRAK", "D:\PRAK>TASM EK063.asm", and "D:\PRAK>TLINK EK063.obj/t". The output of the TASM command shows "Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International" and assembly statistics: "Assembling file: EK063.asm", "Error messages: None", "Warning messages: None", "Passes: 1", and "Remaining memory: 490k". The output of the TLINK command shows "Turbo Link Version 4.0 Copyright (c) 1991 Borland International". The prompt "D:\PRAK>" is visible at the bottom.

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
The DOSBox Team http://www.dosbox.com
Z:\>SET BLASTER=A220 I7 D1 H5 T6

Z:\>MOUNT D D:\
Drive D is mounted as local directory D:\

Z:\>D:

D:\>CD PRAK

D:\PRAK>TASM EK063.asm
Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International

Assembling file: EK063.asm
Error messages: None
Warning messages: None
Passes: 1
Remaining memory: 490k

D:\PRAK>TLINK EK063.obj/t
Turbo Link Version 4.0 Copyright (c) 1991 Borland International

D:\PRAK>
```

Mengubah file ke .com menggunakan tlink

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: EKO63
Drive D is mounted as local directory D:\
Z:\>D:
D:\>CD PRAK
D:\PRAK>TASM EKO63.asm
Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International

Assembling file: EKO63.asm
Error messages: None
Warning messages: None
Passes: 1
Remaining memory: 490k

D:\PRAK>TLINK EKO63.obj/t
Turbo Link Version 4.0 Copyright (c) 1991 Borland International

D:\PRAK>EKO63

Username : EKO RACHMAT SATRIYO
Password : 2100018142
Ditolak
Username :
```

Menjalankan dan hasil program, apabila ditolak akan diulang sampai benar

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: EKO63
For more information read the README file in the DOSBox directory.
HAVE FUN!
The DOSBox Team http://www.dosbox.com
Z:\>SET BLASTER=A220 I7 D1 H5 T6
Z:\>mount d d:\
Drive D is mounted as local directory d:\
Z:\>d:
D:\>cd prak
D:\PRAK>eko63

Username : dsk
Password : dsk
Diterima
D:\PRAK>eko63
```

Apabila diterima, langsung kembali ke dos

