## LAPORAN PRAKTIKUM DASAR SISTEM KOMPUTER



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PROGRAM STUDI TEKNIK INFORMATIKA

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OKTOBER 2021

#### PRAKTIK I

Saya menggunakan DOS BOX karena cmd tidak bisa menjalankan debug.

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Windows7 64bit\> DEBUG
'DEBUG' is not recognized as an internal or external command, operable program or batch file.

C:\Users\Windows7 64bit\> DEBUG
'DEBUG' is not recognized as an internal or external command, operable program or batch file.

C:\Users\Windows7 64bit\> debug
'debug' is not recognized as an internal or external command, operable program or batch file.

C:\Users\Windows7 64bit\> debug
'debug' is not recognized as an internal or external command, operable program or batch file.

C:\Users\Windows7 64bit\> debug
'debug' is not recognized as an internal or external command, operable program or batch file.

C:\Users\Windows7 64bit\>
```

Menjalankan DEBUG pada DOSBox dan list perintah.

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DEBUG
                                                                      - - X
             A [address]
assemble
             C range address
compare
             D [range]
dump
             E address [list]
enter
             F range list
fill
             G [=address] [addresses]
qο
hex
             H value1 value2
             I port
input
load
             L [address] [drive] [firstsector] [number]
move
             M range address
             N [pathname] [arglist]
name
output
             O port byte
             P [=address] [number]
proceed
quit
             Q
register
             R [register]
search
             S range list
             T [=address] [value]
trace
unassemble
             U [range]
write
             W [address] [drive] [firstsector] [number]
allocate expanded memory
                                 XA [#pages]
deallocate expanded memory
                                 XD [handle]
map expanded memory pages
                                 XM [Lpage] [Ppage] [handle]
display expanded memory status
```

Mengetik

A 100

Mov ax,05

Mov ds,ax

Mov si,012

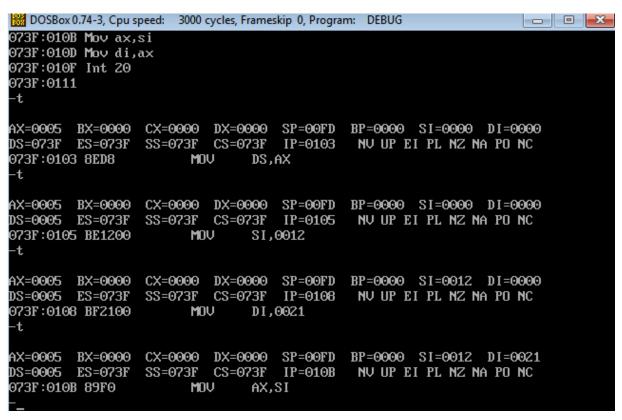
Mov di,021

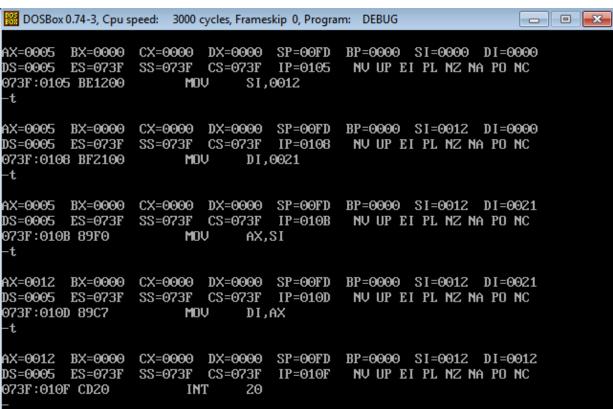
Mov ax,si

Mov di,ax

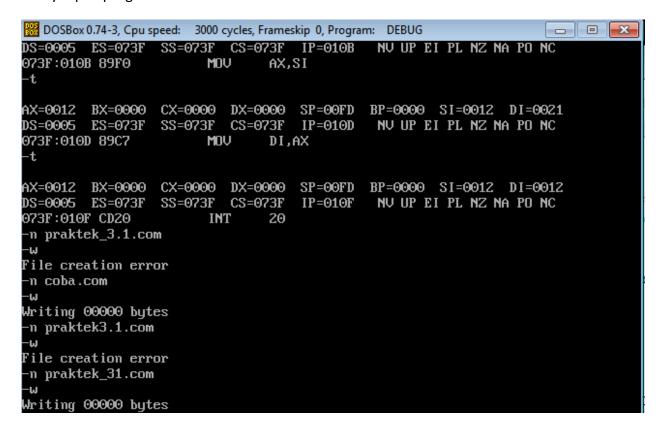
Int 20

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DEBUG
                                                                     - - X
input
             I port
load
             L [address] [drive] [firstsector] [number]
move
             M range address
             N [pathname] [arglist]
name
             O port byte
output
             P [=address] [number]
proceed
guit
             Q
             R [register]
register
search
             S range list
trace
             T [=address] [value]
unassemble
             U [range]
             W [address] [drive] [firstsector] [number]
                                XA [#pages]
allocate expanded memory
deallocate expanded memory
                                XD [handle]
map expanded memory pages
                                XM [Lpage] [Ppage] [handle]
display expanded memory status XS
-A 100
073F:0100 Mov ax,05
073F:0103 Mov ds,ax
073F:0105 Mo∨ si,012
073F:0108 Mo∨ di,021
073F:010B Mov ax,si
073F:010D Mov di,ax
073F:010F int 20
073F:0111
```





#### Menyimpan program



#### **PRAKTIK II**

Mengetikkan
A 100
Mov ax,02
Mov dl,41
Int 20
Int 21

```
BOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DEBUG
                                                                       - - X
 The DOSBox Team http://www.dosbox.com
Z:\>SET BLASTER=A220 I7 D1 H5 T6
Z:\>mount d d:\
Dri∨e D is mounted as local directory d:\
Z:\>d:
D:N>debug.exe
-a 100
973F:0100 mov ax,02
973F:0103 mo∨ dl,41
973F:0105 int 20,
973F:0107 int 21
973F:0109
-rcx
CX 0000
:8
-n fail.com
writing 00008 bytes
```

Setelah dijalankan,ternyata lag dan error (force close).Dan tidak muncul huruf A.Dan hasil akhirnya adalah 109,bukan 108.

Mengetikkan (versi saya)

Mov ah,02

Mov dl,41

Int 21

Int 20

Dan menghasilkan huruf A.

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DEBUG
                                                                       - - X
  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:\>debug.exe
-a 100
073F:0100 mov ah,02
073F:0102 mov dl,41
073F:0104 int 21
073F:0106 int 20
073F:0108
-rcx
CX 0000
:8
-n prakii.com
Writing 00008 bytes
```

Keluar dari program dan kemudian mengetahui panjang program.

```
D:\>dir prakii.com
Directory of D:\.
PRAKII COM 8 13-10-2021 10:26
1 File(s) 8 Bytes.
0 Dir(s) 262,111,744 Bytes free.
```

### **PRAKTIK III**

Menuliskan seperti di modul.

Mov ah,02

Mov dl,31

Int 20

Int 21

```
D:\>debug.exe
-a 100
073F:0100 mov ah,02
073F:0102 mov dl,31
073F:0104 int 20
073F:0106 int 21
073F:0108
-n prank.com
-w
Writing 00000 bytes
-g
```

Mengetikkan (versi saya)

Mov ah,02

Mov dl,31

Int 21

Int 20

```
D:\>debug.exe
-a 100
073F:0100 mov ah,02
073F:0102 mov dl,31
073F:0104 int 21
073F:0106 int 20
073F:0108
-n bener.com
-w
Writing 00000 bytes
-g
1
```