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Kelas : C
Modul : 2

- Menyiapkan foldernya

```
Select C:\Windows\system32\cmd.exe

Directory of C:\OS
09/10/2019 05:20 PM <DIR> .
09/10/2019 05:20 PM <DIR> ..
09/10/2019 04:58 PM <DIR> Bochs-2.3.5
09/03/2015 01:42 PM <DIR> Dev-Cpp
09/10/2019 04:58 PM 1,474,560 floppy.img
12/17/2008 12:08 AM 1,096,291 i386.pdf
09/03/2015 01:42 PM <DIR> LAB
12/17/2008 12:07 AM 846,920 pcasm-book.pdf
12/17/2008 01:44 AM 86 Setpath.bat
12/13/2008 02:12 PM 716,512 winima81.exe
5 File(s) 4,134,369 bytes
5 Dir(s) 168,207,667,200 bytes free

C:\OS>cd LAB\LAB2

C:\OS\LAB\LAB2>dir
Volume in drive C has no label.
Volume Serial Number is 9477-88E5

Directory of C:\OS\LAB\LAB2
09/03/2015 01:42 PM <DIR> .
09/03/2015 01:42 PM <DIR> ..
12/15/2008 04:18 PM 1,625 bochsrc.bxrc
12/15/2008 05:57 PM 15,923 boot.asm
12/15/2008 01:52 PM 78 dosfp.bat
12/15/2008 05:57 PM 7,966 kernel.asm
12/15/2008 04:21 PM 228 Makefile
12/15/2008 12:20 PM 44 s.bat
6 File(s) 25,864 bytes
2 Dir(s) 168,211,578,880 bytes free

C:\OS\LAB\LAB2>
```

- membuat file floppy.img

```
C:\Windows\system32\cmd.exe

ERROR: Aborted

Press any key to continue

C:\OS\LAB\LAB2>bximage
=====
Disk Image Creation Tool for Bochs
$Id: bximage.c,v 1.32 2006/06/16 07:29:33 vruppert Exp $
=====

Do you want to create a floppy disk image or a hard disk image?
Please type hd or fd. [hd] fd

Choose the size of floppy disk image to create, in megabytes.
Please type 0.16, 0.18, 0.32, 0.36, 0.72, 1.2, 1.44, 1.68, 1.72, or 2.88.
[1.44]
I will create a floppy image with
cyl=80
heads=2
sectors per track=18
total sectors=2880
total bytes=1474560

What should I name the image?
[a.img] floppy.img

Writing: [] Done.

I wrote 1474560 bytes to floppy.img.

The following line should appear in your bochsrc:
floppya: image="floppy.img", status=inserted
(The line is stored in your windows clipboard, use CTRL-V to paste)

Press any key to continue

C:\OS\LAB\LAB2>
```

- format floppy.img

The screenshot shows a Bochs for Windows - Display window. The main text area displays the following commands and output:

```

Drive R: = Driver OSLAB unit 0
A:\>format B: /S
Insert new diskette for drive B:
and press ENTER when ready...

Checking existing disk format.
Formatting 1.44M
Format complete.
System transferred

Volume label (11 characters, ENTER for none)?

    1,457,664 bytes total disk space
    221,696 bytes used by system
    1,235,968 bytes available on disk

    512 bytes in each allocation unit.
    2,414 allocation units available on disk.

Volume Serial Number is 1375-1C08

Format another (Y/N)?n

A:\>

```

The bottom status bar shows the keyboard layout: CTRL + 3rd button enables mouse, A:, B:, HD:0-M, CD:0-S, NUM, CAPS, SCRL.

- booting floppy.img

The screenshot shows a Bochs for Windows - Display window. The main text area displays the following text:

```

Plex86/Bochs VGABios 0.6a 19 Aug 2006
This VGA/VBE Bios is released under the GNU LGPL

Please visit :
. http://bochs.sourceforge.net
. http://www.nongnu.org/vgabios

Bochs VBE Display Adapter enabled

Bochs BIOS - build: 09/10/07
$Revision: 1.183 $ $Date: 2007/09/10 20:00:29 $
Options: apmbios pcibios eltorito rombios32

Booting from Floppy...
Starting BootCD.....

Microsoft(R) MS-DOS 7.1
(C)Copyright Microsoft Corp 1981-1999.

A:\>_

```

The bottom status bar shows the keyboard layout: CTRL + 3rd button enables mouse, A:, NUM, CAPS, SCRL.

- kompilasi boot.asm dengan floppy.img

```

C:\Windows\system32\cmd.exe
Build from CVS snapshot, on September 16, 2007
=====
0000000000i[      ] reading configuration from bochsrc.bxrc
0000000000i[      ] installing win32 module as the Bochs GUI
0000000000i[      ] using log file bochs.log
# In bx_win32_gui_c::exit(void)!
=====
Bochs is exiting with the following message:
[WGUI ] POWER button turned off.
=====

C:\OS\LAB\LAB2>make fp.disk
nasm boot.asm -o boot.bin -f bin
dd if=boot.bin of=floppy.img
rawwrite dd for windows version 0.5.
Written by John Newbigin <jn@it.swin.edu.au>
This program is covered by the GPL. See copying.txt for details
1+0 records in
1+0 records out

C:\OS\LAB\LAB2>s

C:\OS\LAB\LAB2>..\..\bochs-2.3.5\bochs -q -f bochsrc.bxrc
0000000000i[APIC?] local apic in initializing
=====
Bochs x86 Emulator 2.3.5
Build from CVS snapshot, on September 16, 2007
=====
0000000000i[      ] reading configuration from bochsrc.bxrc
0000000000i[      ] installing win32 module as the Bochs GUI
0000000000i[      ] using log file bochs.log
# In bx_win32_gui_c::exit(void)!
=====
Bochs is exiting with the following message:
[WGUI ] POWER button turned off.
=====

C:\OS\LAB\LAB2>

```

- tampilan boot yang error

```

Bochs for Windows - Display
=====
Plex86/Bochs VGABios 0.6a 19 Aug 2006
This VGA/VBE Bios is released under the GNU LGPL

Please visit :
. http://bochs.sourceforge.net
. http://www.nongnu.org/vgabios

Bochs VBE Display Adapter enabled

Bochs BIOS - build: 09/10/07
$Revision: 1.183 $ $Date: 2007/09/10 20:00:29 $
Options: apmbios pcibios eltorito rombios32

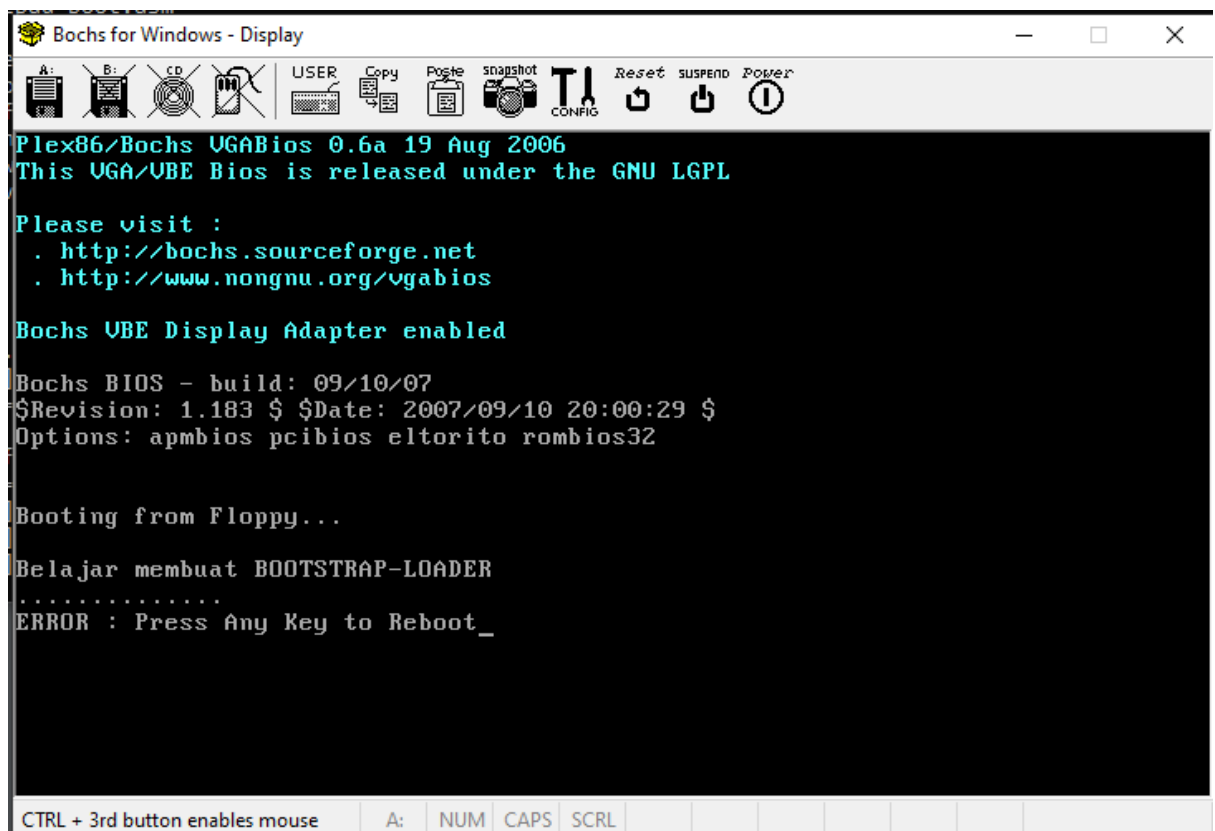
Booting from Floppy...

Loading kernel ver 0.01
.....
ERROR : Press Any Key to Reboot_

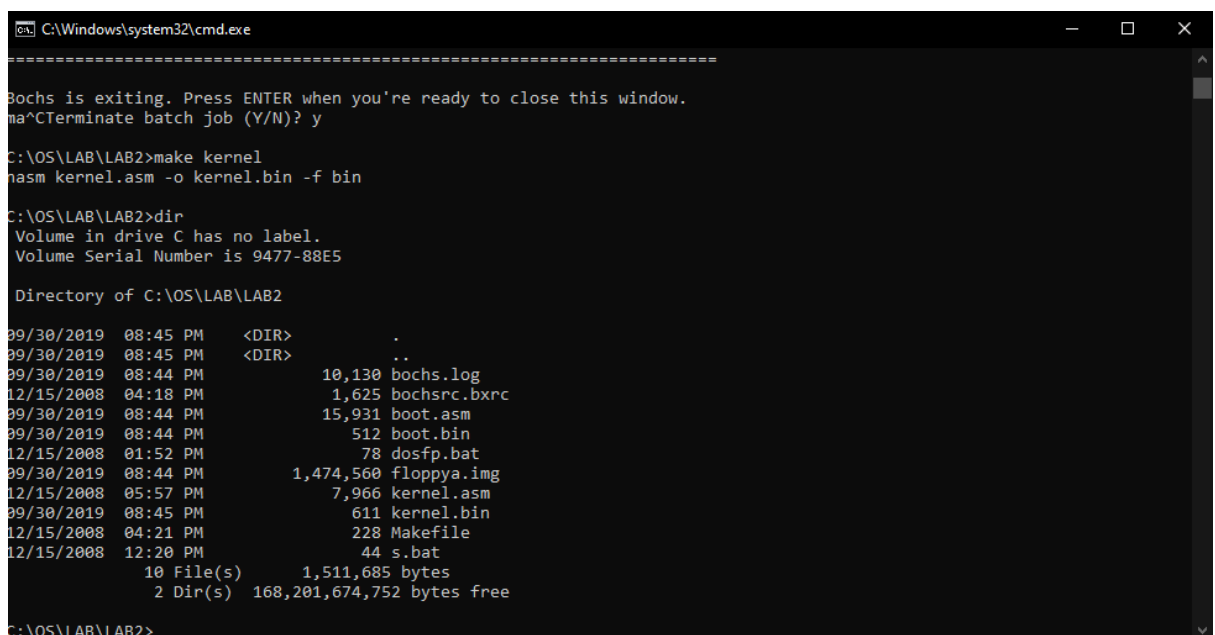
CTRL + 3rd button enables mouse  A:  NUM  CAPS  SCRL

```

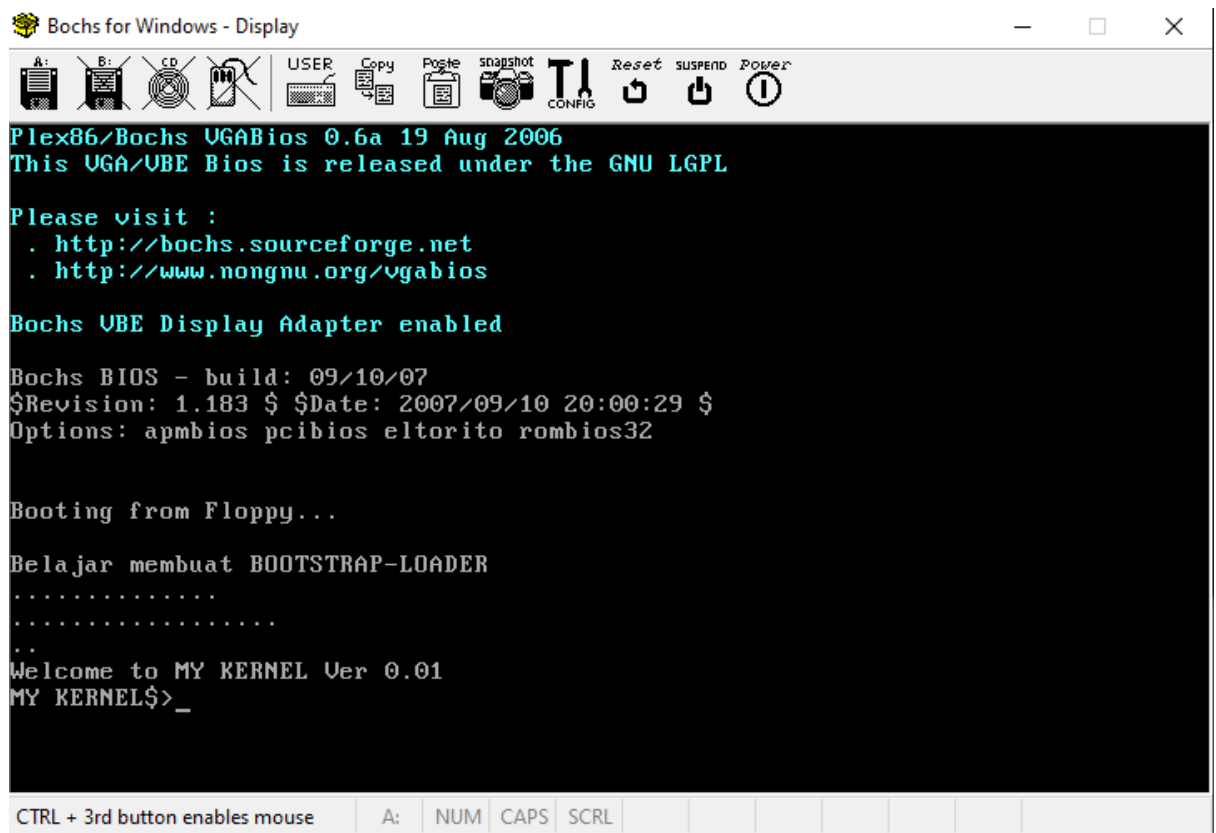
- tampilan setelah kompilasi dan edit boot.asm



- membuat kernel



- floppy.img setelah inject kernel.bin



- tampilan setelah kernel. asm diubah

