

NAMA : DANDUNG RAHMATDHAN

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KELAS : E

1. Menyiapkan file floppy.img

```
C:\Windows\system32\cmd.exe
operable program or batch file.

C:\OS\OS>cd LAB
C:\OS\OS\LAB>cd LAB2
C:\OS\OS\LAB\LAB2>bximage
=====
                        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] 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

The disk image 'floppy.img' already exists. Are you sure you want to replace it?
Please type yes or no. [no] yes

Writing: [] Done.

I wrote 1474560 bytes to floppy.img.

The following line should appear in your bochsrc:
  floppy: 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\OS\LAB\LAB2>
C:\OS\OS\LAB\LAB2>
```

```
C:\Windows\system32\cmd.exe
total sectors=2880
total bytes=1474560

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

The disk image 'floppy.img' already exists. Are you sure you want to replace it?
Please type yes or no. [no] yes

Writing: [] Done.

I wrote 1474560 bytes to floppy.img.

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

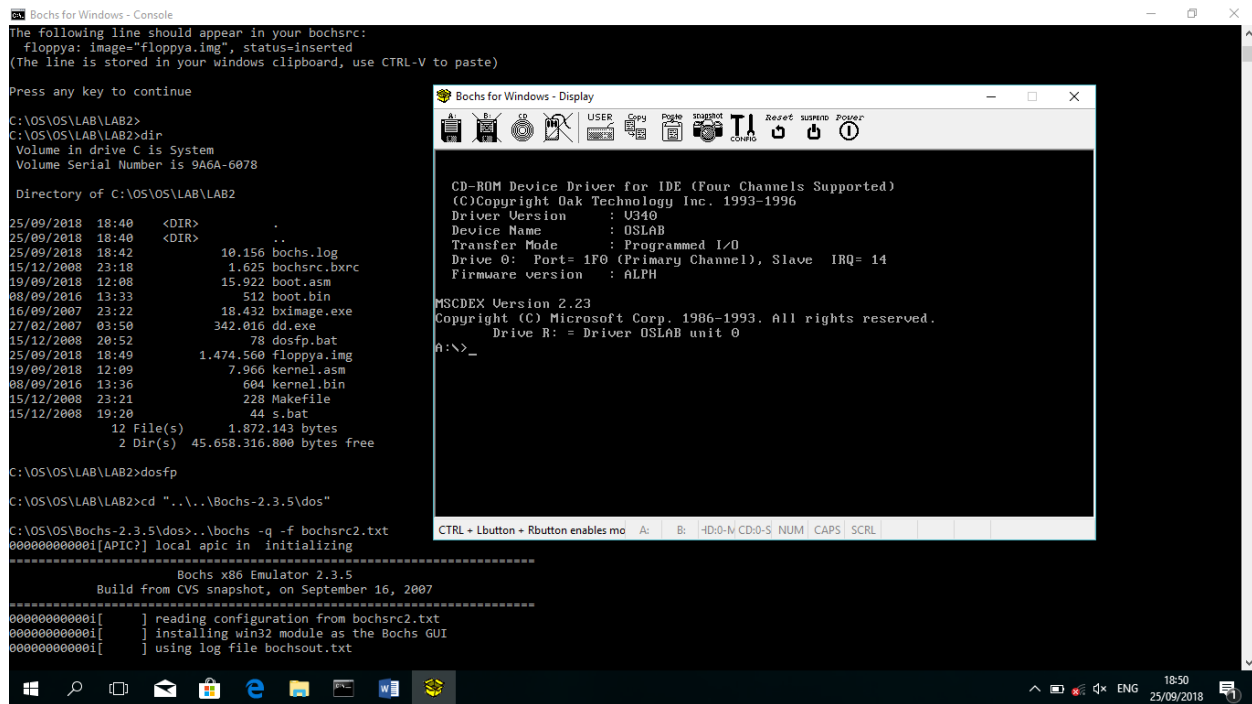
Press any key to continue
C:\OS\OS\LAB\LAB2>
C:\OS\OS\LAB\LAB2>dir
Volume in drive C is System
Volume Serial Number is 9A6A-6078

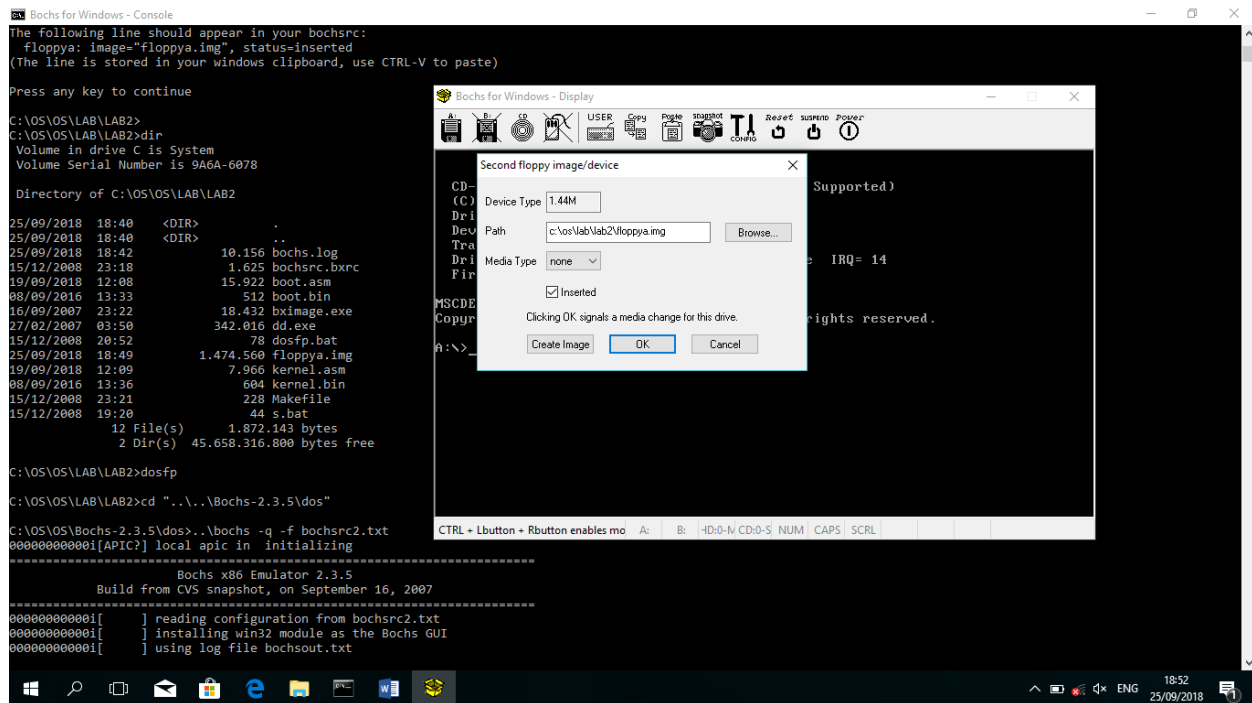
Directory of C:\OS\OS\LAB\LAB2

25/09/2018  18:40      <DIR>      .
25/09/2018  18:40      <DIR>      ..
25/09/2018  18:42          10,156 bochs.log
15/12/2008  23:18           1,625 bochsrc.bxrc
19/09/2018  12:08          15,922 boot.asm
08/09/2016  13:33           512 boot.bin
16/09/2007  23:22          18,432 bximage.exe
27/02/2007  03:50          342,016 dd.exe
15/12/2008  20:52           78 dosfp.bat
25/09/2018  18:49        1,474,560 floppy.img
19/09/2018  12:09           7,966 kernel.asm
08/09/2016  13:36           604 kernel.bin
15/12/2008  23:21           228 Makefile
15/12/2008  19:30           44 s.bat
                12 File(s)          1,872,143 bytes
                2 Dir(s)          45,658,316,800 bytes free

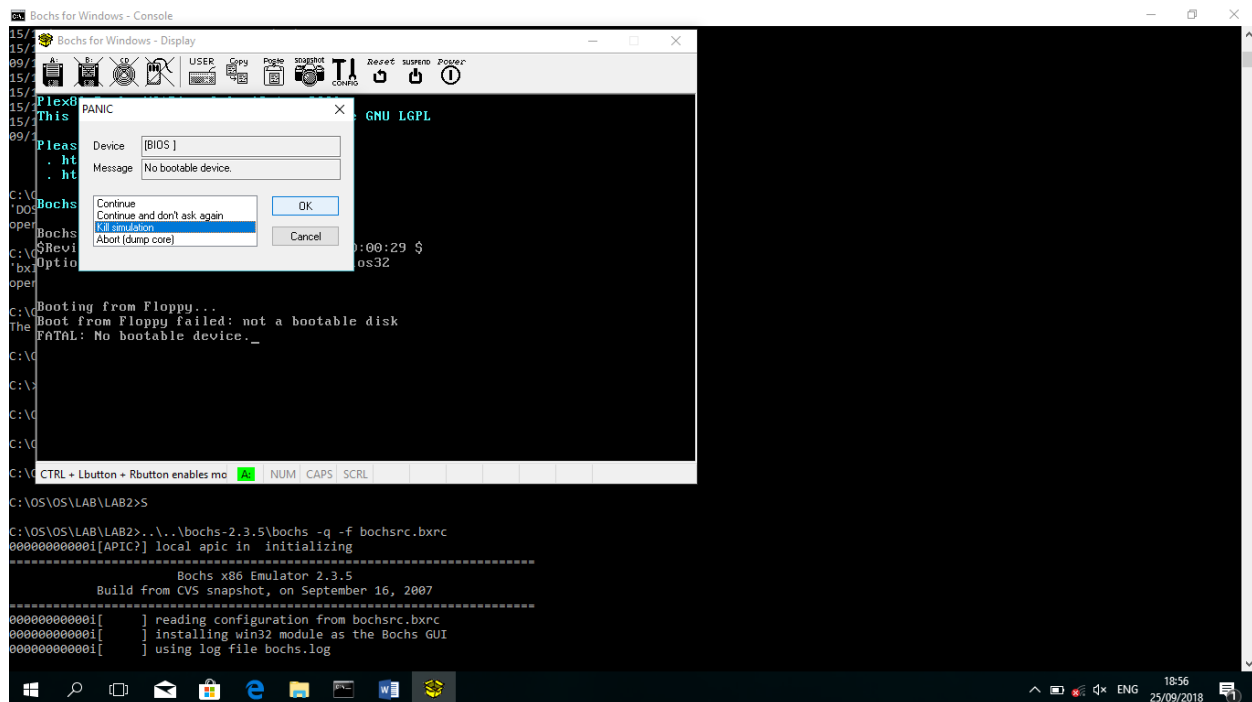
C:\OS\OS\LAB\LAB2>
```

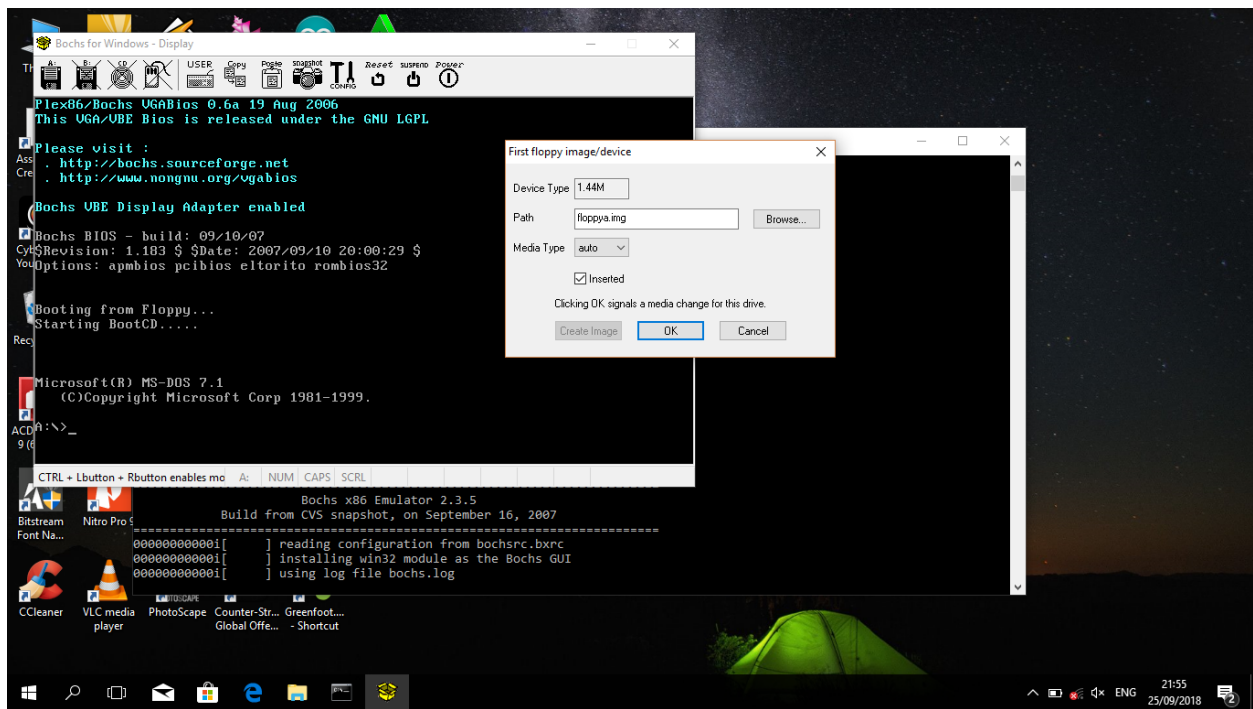
2. Memformat floppy.img



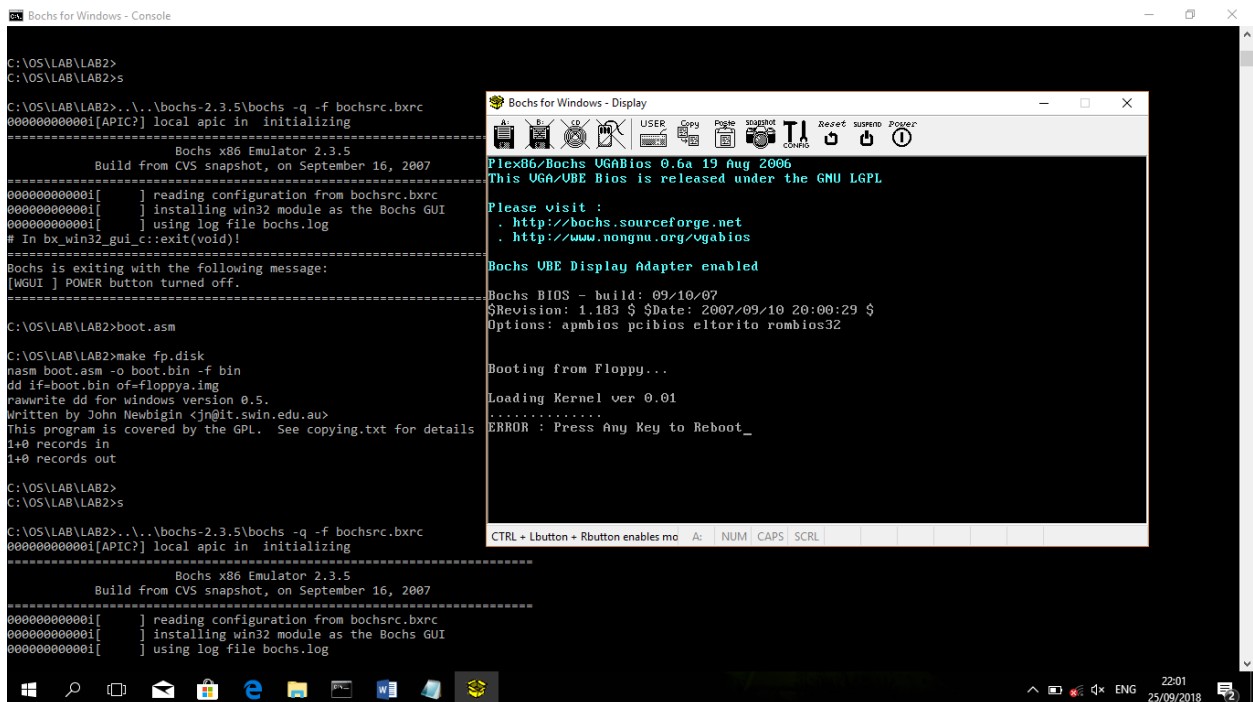


3. PC simulator melakukan proses booting





4. BOOT PC simulator dengan program bootsaploader yang baru



5. Menyunting file Boot.asm

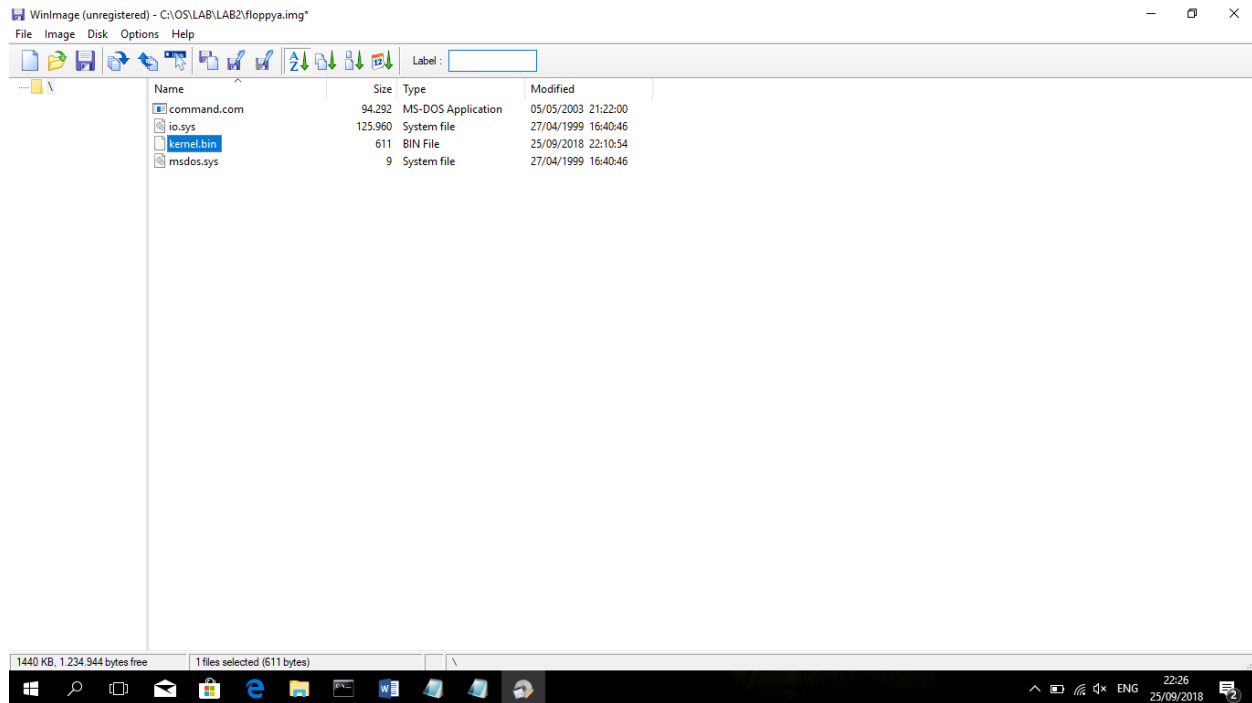

```
C:\Windows\system32\cmd.exe
C:\OS\LAB\LAB2>s
C:\OS\LAB\LAB2>..\bochs-2.3.5\bochs -q -f bochsrc.bxrc
0000000000i[APIC?] local apic in initializing
=====
Bochs x86 Emulator 2.3.5
Build from CVS snapshot, on September 16, 2007
=====
0000000000i[      ] reading configuration from bochsrc.bxrc
0000000000i[      ] 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>make kernel
nasm kernel.asm -o kernel.bin -f bin
C:\OS\LAB\LAB2>dir
Volume in drive C is System
Volume Serial Number is 9A6A-6078

Directory of C:\OS\LAB\LAB2

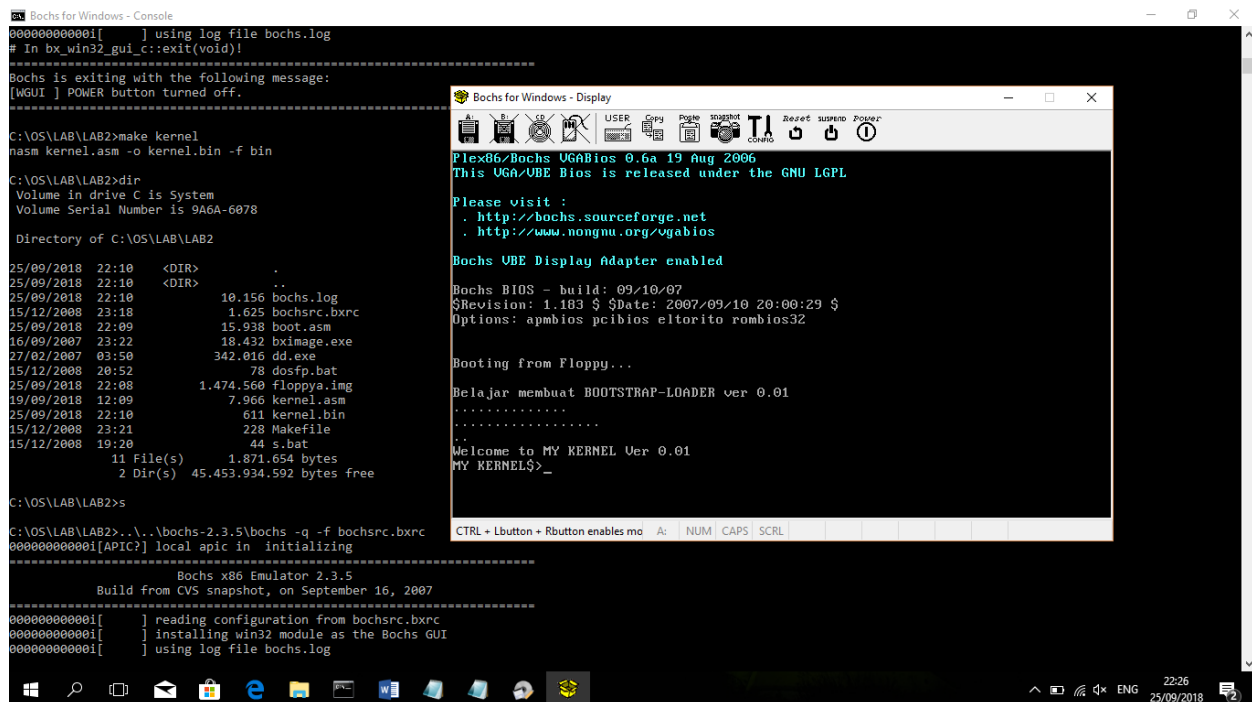
25/09/2018  22:10    <DIR>          .
25/09/2018  22:10    <DIR>          ..
25/09/2018  22:10             10,156 bochs.log
15/12/2008  23:18             1,625 bochsrc.bxrc
25/09/2018  22:09             15,938 boot.asm
16/09/2007  23:22             18,432 bximage.exe
27/02/2007  03:50             342,816 dd.exe
15/12/2008  20:52              78 dosfp.bat
25/09/2018  22:08          1,474,560 floppy.img
19/09/2018  12:09             7,966 kernel.asm
25/09/2018  22:10             611 kernel.bin
15/12/2008  23:21             228 Makefile
15/12/2008  19:20              44 s.bat
               11 File(s)          1,871,654 bytes
               2 Dir(s)          45,453,934,592 bytes free

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

7. Memindahkan file kernel.bin dalam file image floppy.img



8. BOOT PC dengan menggunakan floppya.img



9. Memodifikasi file kernel.asm

```
Bochs for Windows - Console
=====
Bochs is exiting. Press ENTER when you're ready to close this window.

C:\OS\LAB\LAB2>notepad kernel.asm

C:\OS\LAB\LAB2>make kernel
nasm kernel.asm -o kernel.bin -f bin

C:\OS\LAB\LAB2>s

C:\OS\LAB\LAB2>..\..\bochs-2.3.5\bochs -q -f bochsrc.bxrc
00000000000i[APIC?] local apic in  initializing
=====
                Bochs x86 Emulator 2.3.5
                Build from CVS snapshot, on September 16, 2007
=====
00000000000i[      ] reading configuration from bochsrc.bxrc
00000000000i[      ] installing win32 module as the Bochs GUI
00000000000i[      ] 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>notepad kernel.asm

C:\OS\LAB\LAB2>make kernel
nasm kernel.asm -o kernel.bin -f bin

C:\OS\LAB\LAB2>s

C:\OS\LAB\LAB2>..\..\bochs-2.3.5\bochs -q -f bochsrc.bxrc
00000000000i[APIC?] local apic in  initializing
=====
                Bochs x86 Emulator 2.3.5
                Build from CVS snapshot, on September 16, 2007
=====
00000000000i[      ] reading configuration from bochsrc.bxrc
00000000000i[      ] installing win32 module as the Bochs GUI
00000000000i[      ] using log file bochs.log
=====

Bochs for Windows - Display
=====
Plex86/Bochs VGABios 0.6a 19 Aug 2006
This VGA/VE 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...

Belajar membuat BOOTSTRAP-LOADER ver 0.01
.....
..
BELAJAR MEMBUAT KERNEL
MY KERNEL$>_

CTRL + Lbutton + Rbutton enables mo  A: | NUM | CAPS | SCRL |

=====
25/09/2018
```