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KELAS : A

```
C:\Users\ACER>cd..

C:\Users\Cd..

C:\\Users\Cd..

C:\\Cos\Adir

Volume in drive C has no label.

Volume Serial Number is 7280-81E6

Directory of C:\\Cos

83/09/2015 13.42 < OIR>
...
84/09/2015 13.42 < OIR
84/09/2015 13.42 < OI
```

```
boot.asm - Notepad
File Edit Format View Help
; LAB-1 : boot-strap loader - real mode
; atur mode kerja 16 bit (real-mode)
[BITS 16]
; Menentukan lokasi awal dari program
[ORG 0x0000]
; loncat ke label START
        START
jmp
; Keterangan format floppy disk format FAT12
                                       db "QUASI-OS"
       OEM ID
       BytesPerSector dw 0x0200
SectorsPerCluster db 0x01
ReservedSectors dw 0x0001
TotalFATs
      TotalFATs db 0x00

MaxRootEntries dw 0x00E0

TotalSectorsSmall dw 0x00E0

MediaDescriptor db 0xF0

SectorsPerFAT dw 0x0009

SectorsPerTrack dw 0x0012

NumHeads

        NumHeads
        dw
        0x0012

        HiddenSectors
        dd
        0x0000000

        TotalSectorsLarge
        dd
        0x00000000

                                     db 0x00
db 0x00
db 0x29
       DriveNumber
       Flags
       Signature
```

dd 0xFFFFFFF

db "QUASI BOOT" db "FAT12 "

VolumeID

VolumeLabel SystemID

## Bochs for Windows - Console

```
:\OS\LAB\LAB1>dd if=boot.bin of=floppya.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
 :\OS\LAB\LAB1>del floppya.img
 :\OS\LAB\LAB1>dir
Volume in drive C has no label.
Volume Serial Number is 72B0-B1E6
 Directory of C:\OS\LAB\LAB1
11/09/2019 10.19
11/09/2019 10.19
                         <DIR>
16/12/2008 16.09
15/12/2008 16.17
14/12/2008 12.02
11/09/2019 10.18
16/09/2015 07.51
                                   10.237 bochsout.txt
                                    1.628 bochsrc.bxrc
                                   14.365 boot.asm
                                       512 boot.bin
                                       512 boots.bin
                                        78 dosfp.bat
15/12/2008 00.47
14/12/2008 11.45
                                     7.966 kernel.asm
15/12/2008 16.21
15/12/2008 12.20
                                       227 Makefile
                                        44 s.bat
                  9 File(s) 35.569 bytes
2 Dir(s) 87.166.070.784 bytes free
C:\OS\LAB\LAB1>cd..
C:\OS\LAB>cd..
 ::\OS>cd Bochs-2.3.5
 :\OS\Bochs-2.3.5>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
```

```
lease 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
   will create a floppy image with
   cy1=80
   heads=2
   sectors per track=18
total sectors=2880
total bytes=1474560
 What should I name the image?
 a.img] floppya.img
The disk image 'floppya.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 floppya.img.
 The following line should appear in your bochsrc:
floppya: image="floppya.img", status=inserted
(The line is stored in your windows clipboard, use CTRL-V to paste)
 ress any key to continue
 :\OS\Bochs-2.3.5>cd..
 :\OS>cd lab..
 :\OS\LAB>cd lab1
C:\OS\LAB\LAB1>dir
 Volume in drive C has no label.
Volume Serial Number is 72B0-B1E6
 Directory of C:\OS\LAB\LAB1
11/09/2019 10.19
11/09/2019 10.19
16/12/2008 16.09
15/12/2008 16.10
                                <DTR>
                                           10.237 bochsout.txt
1.628 bochsrc.bxrc
14.365 boot.asm
512 boot.bin
                                <DIR>
 14/12/2008
11/09/2019
```

```
:\OS>cd lab..
:\OS\LAB>cd lab1
:\OS\LAB\LAB1>dir
Volume in drive C has no label.
Volume Serial Number is 72B0-B1E6
Directory of C:\OS\LAB\LAB1
11/09/2019 10.19
11/09/2019 10.19
16/12/2008 16.09
                            <DIR>
                            <DIR>
                                      ..
10.237 bochsout.txt
15/12/2008
               16.17
                                        1.628 bochsrc.bxrc
14/12/2008
               12.02
                                       14.365 boot.asm
               10.18
07.51
11/09/2019
                                           512 boot.bin
16/09/2015
                                           512 boots.bin
15/12/2008
               00.47
                                            78 dosfp.bat
14/12/2008
               11.45
                                        7.966 kernel.asm
                                           227 Makefile
15/12/2008
                16.21
15/12/2008
               12.20
                                            44 s.bat
                   9 File(s) 35.569 bytes
2 Dir(s) 87.166.070.784 bytes free
C:\OS\LAB\LAB1>s
C:\OS\LAB\LAB1>..\.\bochs-2.3.5\bochs -q -f bochsrc.bxrc
00000000000[APIC?] local apic in initializing
                              Bochs x86 Emulator 2.3.5
                Build from CVS snapshot, on September 16, 2007
                        ] reading configuration from bochsrc.bxrc
] installing win32 module as the Bochs GUI
] using log file bochsout.txt
00000000000i[
00000000000i[
11000000000000
```

