

Laporan Praktikum
Modul I
Pengenalan Sistem Pengembangan OS
Praktikum Sistem Operasi



OLEH :

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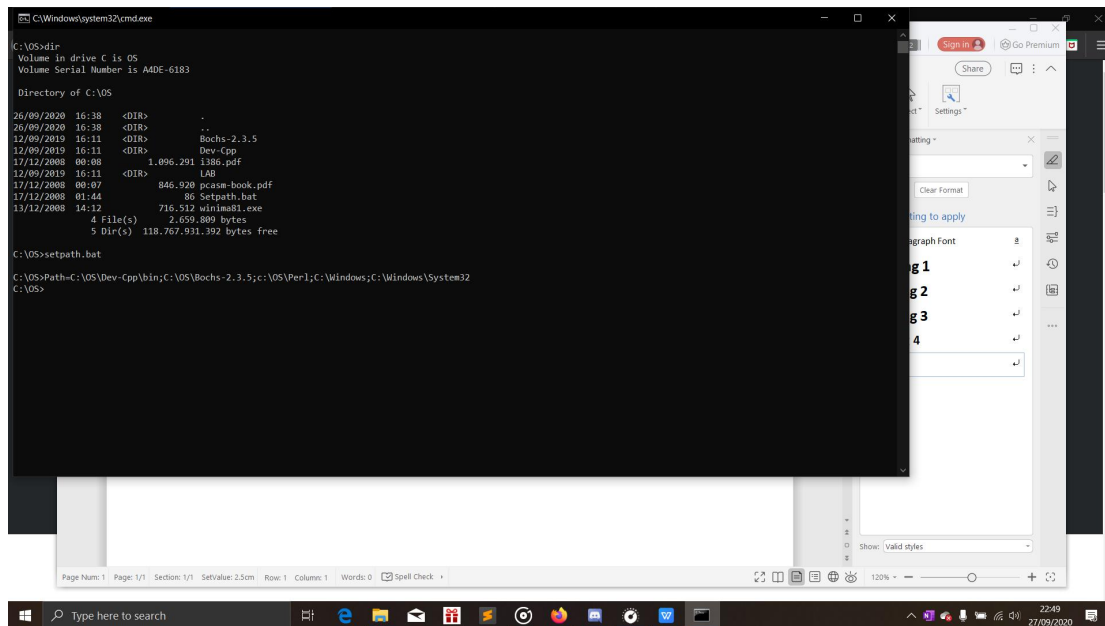
INFORMATIKA

FAKULTAS KOMUNIKASI DAN INFORMATIKA

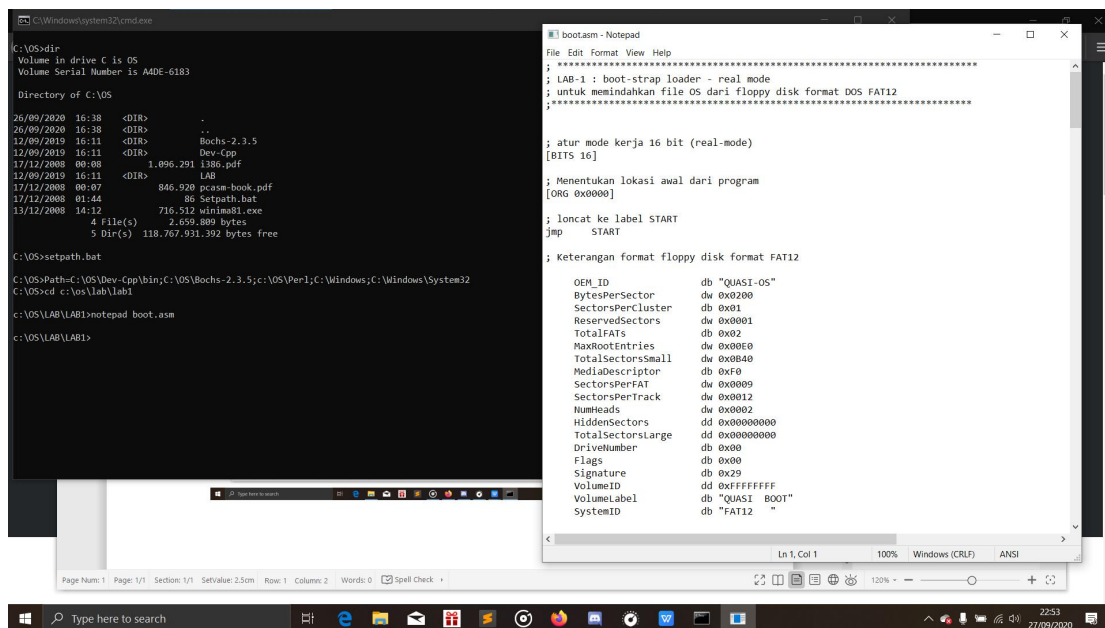
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Kegiatan modul 1



The screenshot shows a Windows command prompt window titled "C:\Windows\system32\cmd.exe". The user has entered the command `dir`, which displays the contents of the C:\ drive. The output shows a directory listing with files and folders, including `26/09/2020 16:38 <DIR> .`, `26/09/2020 16:38 <DIR> ..`, `12/09/2019 16:11 <DIR> Bochs-2.3.5`, `12/09/2019 16:11 <DIR> Dev-Cpp`, `17/12/2008 00:08 1.096.291 i386.pdf`, `12/09/2019 16:11 <DIR> LAB`, `17/12/2008 00:07 846.920 pcasm-book.pdf`, `17/12/2008 01:44 86 Setpath.bat`, and `13/12/2008 14:12 716.512 winima81.exe`. The user then enters the command `setpath.bat`, which sets the path to `C:\OS>Path=C:\OS\Dev-Cpp\bin;C:\OS\Bochs-2.3.5;c:\OS\Perl;C:\Windows;C:\Windows\System32`. The taskbar at the bottom shows the Windows search bar and various application icons.



The screenshot shows two windows. The left window is a Windows command prompt titled "C:\Windows\system32\cmd.exe" showing the same directory listing as the first screenshot. The user has entered the command `setpath.bat`, which sets the path to `C:\OS>Path=C:\OS\Dev-Cpp\bin;C:\OS\Bochs-2.3.5;c:\OS\Perl;C:\Windows;C:\Windows\System32`. The user then enters the command `cd c:\os\lab\lab1`, followed by `c:\os\lab\lab1>notepad boot.asm`, and finally `c:\os\lab\lab1>`. The right window is a Notepad window titled "bootasm - Notepad" showing assembly code. The code includes comments in Indonesian and a table of floppy disk format FAT12 parameters. The code is as follows:

```
bootasm - Notepad
File Edit Format View Help
; *****
; LAB-1 : boot-strap loader - real mode
; untuk memindahkan file OS dari floppy disk format DOS FAT12
; *****

; atur mode kerja 16 bit (real-mode)
[BITS 16]

; Menentukan lokasi awal dari program
[ORG 0x0000]

; loncat ke label START
jmp START

; Keterangan format floppy disk format FAT12

OEM_ID          db "QUASI-OS"
BytesPerSector  dw 0x0200
SectorsPerCluster dw 0x01
ReservedSectors dw 0x0001
TotalFATS        dw 0x02
MaxRootEntries  dw 0x00E0
TotalSectorsSmall dw 0x0B40
MediaDescriptor db 0xF0
SectorsPerFAT    dw 0x0009
SectorsPerTrack  dw 0x0012
NumHeads         dw 0x0002
HiddenSectors     dd 0x00000000
TotalSectorsLarge dd 0x00000000
DriveNumber       db 0x00
Flags            db 0x00
Signature        db 0x29
VolumeID         dd 0xFFFFFFFF
VolumeLabel       db "QUASI BOOT"
SystemID         db "FAT12"
```

