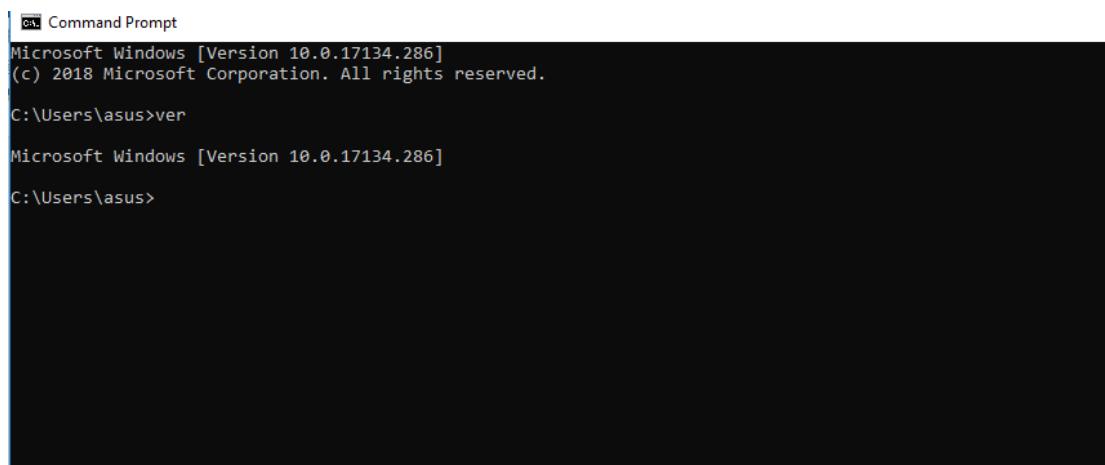


MODUL 4

Pengolahan File dan Directory Menggunakan MS-DOS/Command Prompt di Windows

- Percobaan pertama: Melihat versi MS-Dos (ver)

Langkah 1 & 2:



```
Command Prompt
Microsoft Windows [Version 10.0.17134.286]
(c) 2018 Microsoft Corporation. All rights reserved.

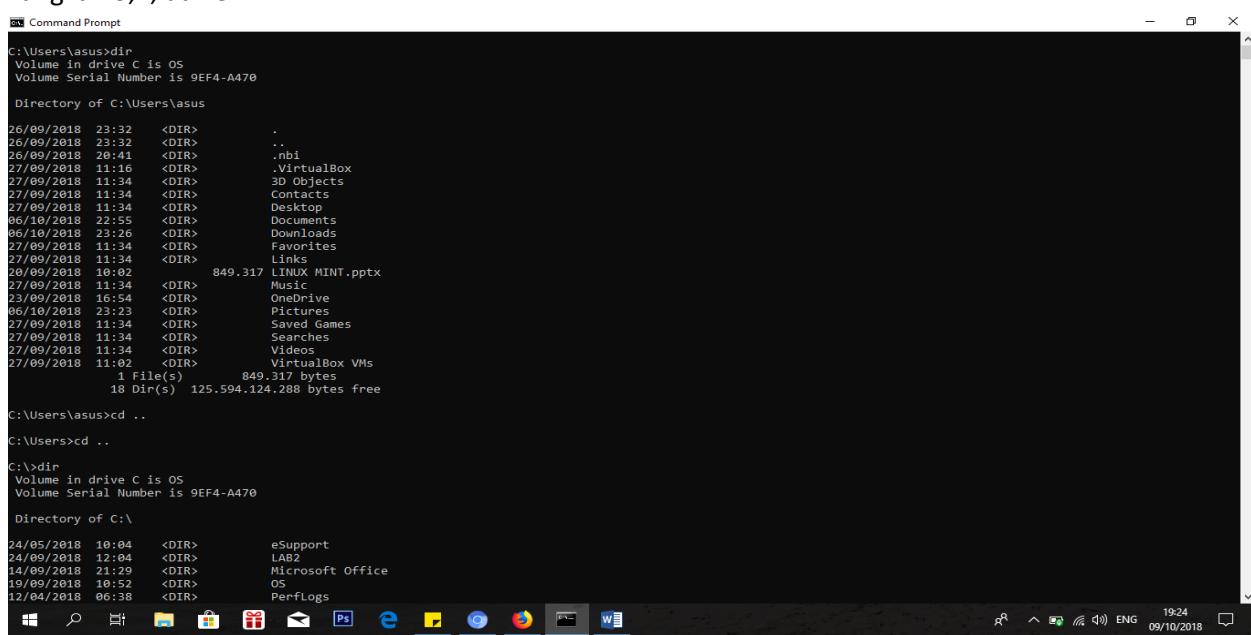
C:\Users\asus>ver

Microsoft Windows [Version 10.0.17134.286]

C:\Users\asus>
```

- Percobaan kedua: melihat, masuk, keluar dari directory dan keluar dari command prompt (dir, cd, cd.., exit)

Langkah 3,4, dan 5:



```
Command Prompt
C:\Users\asus>dir
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

Directory of C:\Users\asus

26/09/2018 23:32 <DIR> .
26/09/2018 23:32 <DIR> ..
26/09/2018 20:41 <DIR> .nbi
27/09/2018 11:16 <DIR> .VirtualBox
27/09/2018 11:34 <DIR> 3D Objects
27/09/2018 11:34 <DIR> Contacts
27/09/2018 11:34 <DIR> Desktop
06/10/2018 22:45 <DIR> Documents
06/10/2018 23:26 <DIR> Downloads
27/09/2018 11:34 <DIR> Favorites
27/09/2018 11:34 <DIR> Links
20/09/2018 10:02 849.317 LINUX MINT.pptx
27/09/2018 11:34 <DIR> Music
23/09/2018 16:54 <DIR> OneDrive
06/10/2018 23:23 <DIR> Pictures
27/09/2018 11:34 <DIR> Saved Games
27/09/2018 11:34 <DIR> Searches
27/09/2018 11:34 <DIR> Videos
27/09/2018 11:02 <DIR> VirtualBox VMs
   1 File(s)    849.317 bytes
   18 Dir(s)  125.594.124.288 bytes free

C:\Users\asus>cd ..

C:\Users>cd ..

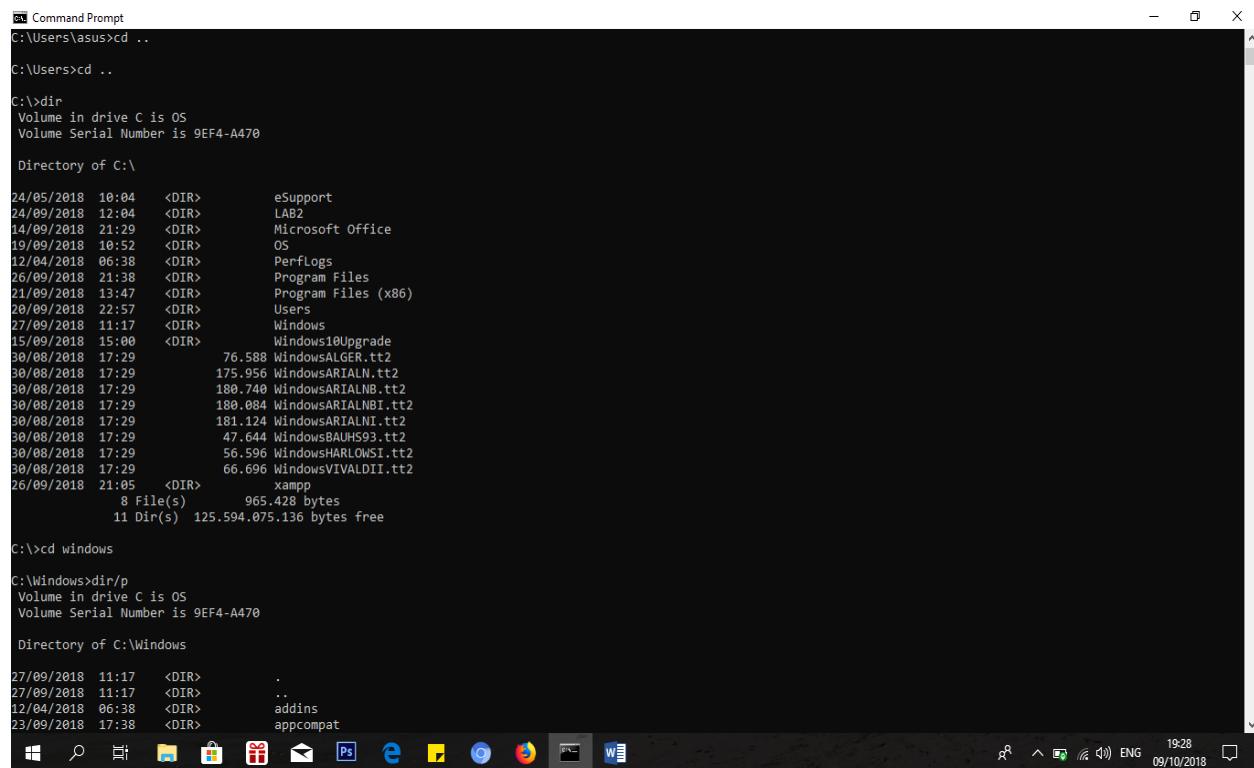
C:\>dir
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

Directory of C:\

24/05/2018 10:04 <DIR> eSupport
24/08/2018 12:04 <DIR> L82
14/08/2018 21:29 <DIR> Microsoft Office
19/09/2018 18:52 <DIR> OS
12/04/2018 06:38 <DIR> PerfLogs
```

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Langkah 6 & 7:



```
Command Prompt
C:\Users\asus>cd ..
C:\Users>cd ..
C:\>dir
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

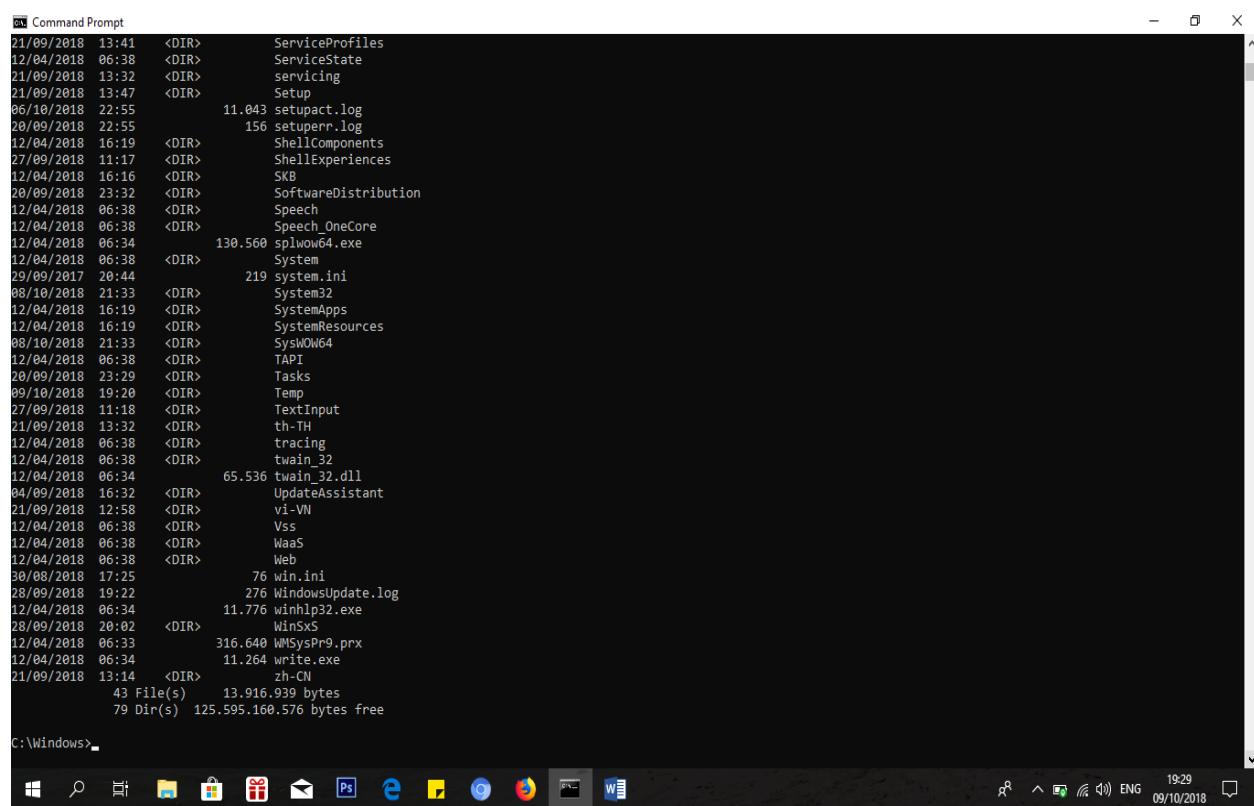
Directory of C:\

24/05/2018  10:04    <DIR>      eSupport
24/09/2018  12:04    <DIR>      LAB2
14/09/2018  21:29    <DIR>      Microsoft Office
19/09/2018  10:52    <DIR>      OS
12/04/2018  06:38    <DIR>      PerfLogs
26/09/2018  21:38    <DIR>      Program Files
21/09/2018  13:47    <DIR>      Program Files (x86)
20/09/2018  22:57    <DIR>      Users
27/09/2018  11:17    <DIR>      Windows
15/09/2018  15:00    <DIR>      Windows10Upgrade
30/08/2018  17:29    76.588 WindowsALGER.tt2
30/08/2018  17:29    175.956 WindowsARIALN.tt2
30/08/2018  17:29    180.748 WindowsARIALNB.tt2
30/08/2018  17:29    180.084 WindowsARIALNB1.tt2
30/08/2018  17:29    181.124 WindowsARTALNT.tt2
30/08/2018  17:29    47.644 WindowsBAUHS93.tt2
30/08/2018  17:29    56.596 WindowsSHARLOWSI.tt2
30/08/2018  17:29    66.696 WindowsVIVALDII.tt2
26/09/2018  21:05    <DIR>     xampp
     8 File(s)   965.428 bytes
    11 Dir(s)  125.594.075.136 bytes free

C:\>cd windows
C:\Windows>dir/p
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

Directory of C:\Windows

27/09/2018  11:17    <DIR>      .
27/09/2018  11:17    <DIR>      ..
12/04/2018  06:38    <DIR>      addins
23/09/2018  17:38    <DIR>      appcompat
```

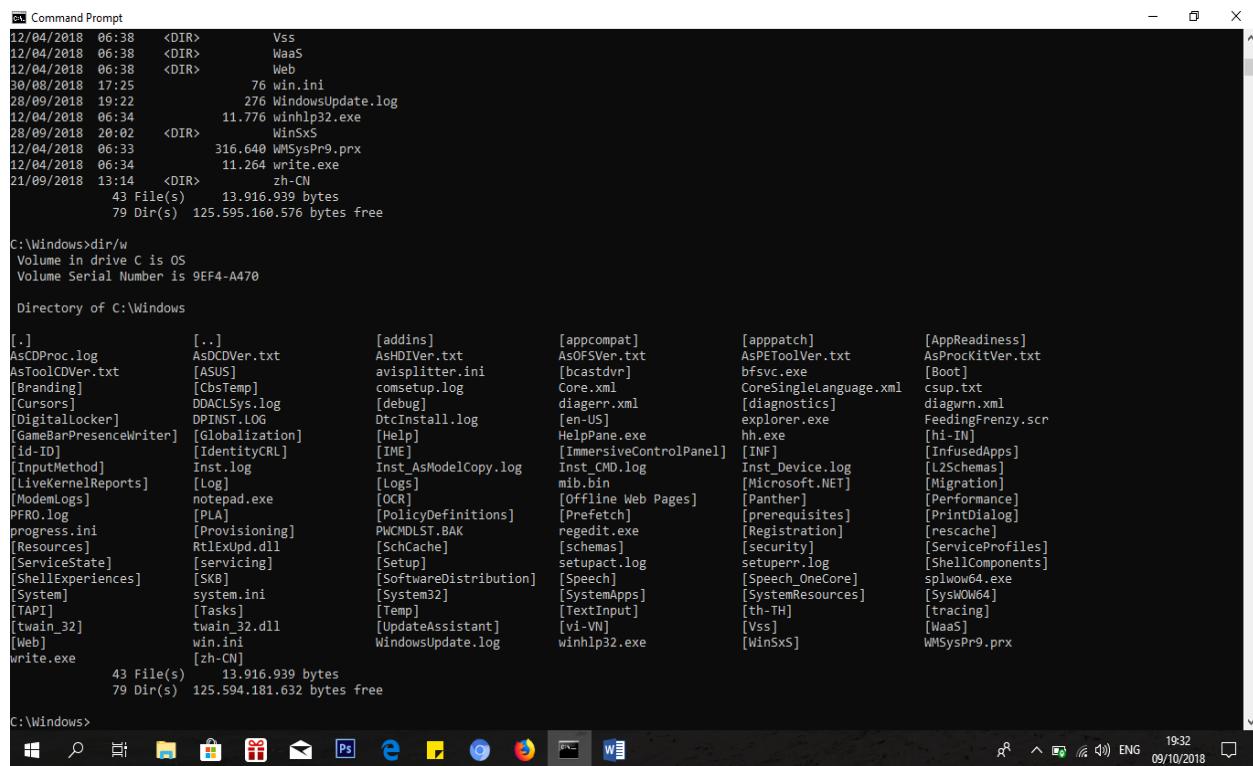


```
Command Prompt
21/09/2018  13:41    <DIR>      ServiceProfiles
12/04/2018  06:38    <DIR>      ServiceState
21/09/2018  13:32    <DIR>      servicing
21/09/2018  13:47    <DIR>      Setup
06/10/2018  22:55    11.043 setupact.log
20/09/2018  22:55    156 setuperr.log
12/04/2018  16:19    <DIR>      ShellComponents
27/09/2018  11:17    <DIR>      ShellExperiences
12/04/2018  16:16    <DIR>      SKB
20/09/2018  23:32    <DIR>      SoftwareDistribution
12/04/2018  06:38    <DIR>      Speech
12/04/2018  06:38    <DIR>      Speech_OneCore
12/04/2018  06:34    130.566 splwow64.exe
12/04/2018  06:38    <DIR>      System
29/09/2017  20:44    219 system.ini
08/10/2018  21:33    <DIR>      System32
12/04/2018  16:19    <DIR>      SystemApps
12/04/2018  16:19    <DIR>      SystemResources
08/10/2018  21:33    <DIR>      SysWow64
12/04/2018  06:38    <DIR>      TAPI
20/09/2018  23:29    <DIR>      Tasks
09/10/2018  19:20    <DIR>      Temp
27/09/2018  11:18    <DIR>      TextInput
21/09/2018  13:32    <DIR>      th-TH
12/04/2018  06:38    <DIR>      tracing
12/04/2018  06:38    <DIR>      twain_32
12/04/2018  06:34    65.536 twain_32.dll
04/09/2018  16:32    <DIR>      UpdateAssistant
21/09/2018  12:58    <DIR>      vi-VN
12/04/2018  06:38    <DIR>      Vss
12/04/2018  06:38    <DIR>      WaaS
12/04/2018  06:38    <DIR>      Web
30/08/2018  17:25    76 win.ini
28/09/2018  19:22    276 WindowsUpdate.log
12/04/2018  06:34    11.776 winhlp32.exe
28/09/2018  20:02    <DIR>      WinSxS
12/04/2018  06:33    316.640 WM5sysPr9.prx
12/04/2018  06:34    11.264 write.exe
21/09/2018  13:14    <DIR>      zh-CN
     43 File(s)   13.916.939 bytes
    79 Dir(s)  125.595.160.576 bytes free

C:\Windows>
```

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Langkah 8 & 9:



```
Command Prompt
12/04/2018 06:38 <DIR> Vss
12/04/2018 06:38 <DIR> WaaS
12/04/2018 06:38 <DIR> Web
30/08/2018 17:25 76 win.ini
28/09/2018 19:22 276 WindowsUpdate.log
12/04/2018 06:34 11.776 winhlip32.exe
28/09/2018 20:02 <DIR> WinSxS
12/04/2018 06:33 316.640 WMSysPr9.prx
12/04/2018 06:34 11.264 write.exe
21/09/2018 13:14 <DIR> zh-CN
43 File(s) 13.916.939 bytes
79 Dir(s) 125.595.160.576 bytes free

C:\Windows>dir/w
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

Directory of C:\Windows

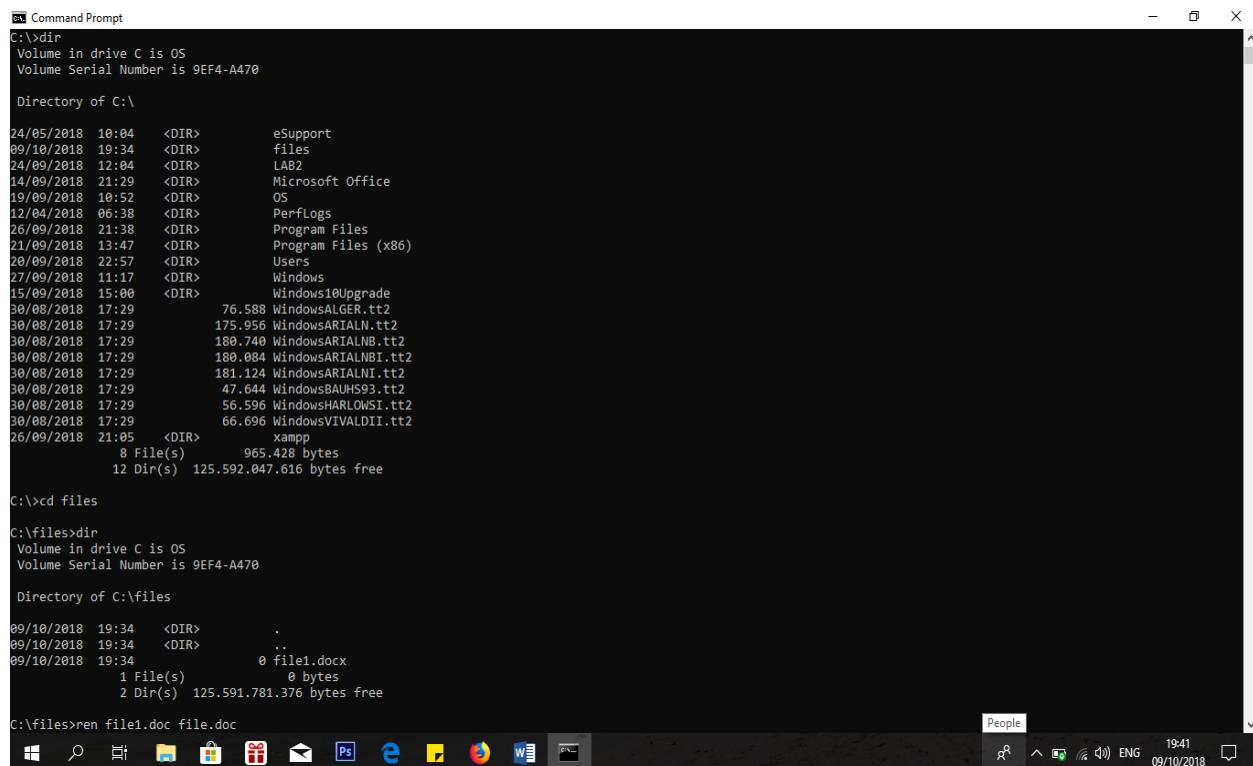
[.] [...] [addins] [appcompat] [apppatch] [AppReadiness]
AsCDProc.log AsCDVer.txt AsHDIVer.txt AsFSVer.txt AsPEToolVer.txt AsRockitVer.txt
AsToolCDVer.txt [ASUS] avisplitter.ini [bcastdrv] bsvc.exe [Boot]
[Branding] [CbsTemp] comsetup.log Core.xml CoreSingleLanguage.xml
[Cursors] DDACLSys.log [debug] diagerr.xml [diagnostics]
[DigitalLocker] DPINST.LOG DtcInstall.log [en-US] explorer.exe FeedingFrenzy.scr
[GameBarPresenceWriter] [Globalization] [Help] HelpPane.exe hh.exe [hi-IN]
[id-ID] [IdentityCRL] [IME] [ImmersiveControlPanel] [INF] [InfusedApps]
[InputMethod] Inst.log Inst_AsmModelCopy.log Inst_CMD.log Inst_Device.log [L2Schemas]
[LiveKernelReports] [Log] [Logs] mib.bin [Microsoft.NET] [Migration]
[ModemLogs] notepad.exe [OCR] [Offline Web Pages] [Panther] [Performance]
PFR0.log [PLA] [PolicyDefinitions] [Prefetch] [prerequisites] [PrintDialog]
progress.ini [Provisioning] PWCMDLST.BAK regedit.exe [Registration] [rescache]
[Resources] RtlExUpd.dll [SchCache] [schemas] [security] [ServiceProfiles]
[ServiceState] [servicing] [Setup] setupact.log setuperr.log [ShellComponents]
[ShellExperiences] [SKB] [SoftwareDistribution] [Speech] [Speech_OneCore] splwow64.exe
[System] system.ini [System32] [SystemApps] [SystemResources] [SysWoW64]
[TAPI] [Tasks] [Temp] [TextInput] [th-TH] [tracing]
[twain_32] twain_32.dll [UpdateAssistant] [vi-VN] [Vss] [WaaS]
[Web] win.ini WindowsUpdate.log winhlip32.exe [WinSxS] WMSysPr9.prx

43 File(s) 13.916.939 bytes
79 Dir(s) 125.594.181.632 bytes free

C:\Windows>
```

- Percobaan ketiga: berubah nama file (ren, rename)

Langkah 10, 11, 12 :



```
Command Prompt
C:>dir
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

Directory of C:\

24/05/2018 10:04 <DIR> eSupport
09/10/2018 19:34 <DIR> files
24/09/2018 12:04 <DIR> LAB2
14/09/2018 21:29 <DIR> Microsoft Office
19/09/2018 10:52 <DIR> OS
12/04/2018 06:38 <DIR> PerfLogs
26/09/2018 21:38 <DIR> Program Files
21/09/2018 13:47 <DIR> Program Files (x86)
20/09/2018 22:57 <DIR> Users
27/09/2018 11:17 <DIR> Windows
15/09/2018 15:00 <DIR> Windows10Upgrade
30/08/2018 17:29 76.588 WindowsALGER.tt2
30/08/2018 17:29 175.956 WindowsARIALN.tt2
30/08/2018 17:29 180.748 WindowsARIALNB.tt2
30/08/2018 17:29 180.084 WindowsARIALNBI.tt2
30/08/2018 17:29 181.124 WindowsARIALNII.tt2
30/08/2018 17:29 47.644 WindowsBAUHS93.tt2
30/08/2018 17:29 56.596 WindowsHARLOWSI.tt2
30/08/2018 17:29 66.696 WindowsVIVALDII.tt2
26/09/2018 21:05 <DIR> xampp
8 File(s) 965.428 bytes
12 Dir(s) 125.592.047.616 bytes free

C:>cd files
C:\files>dir
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

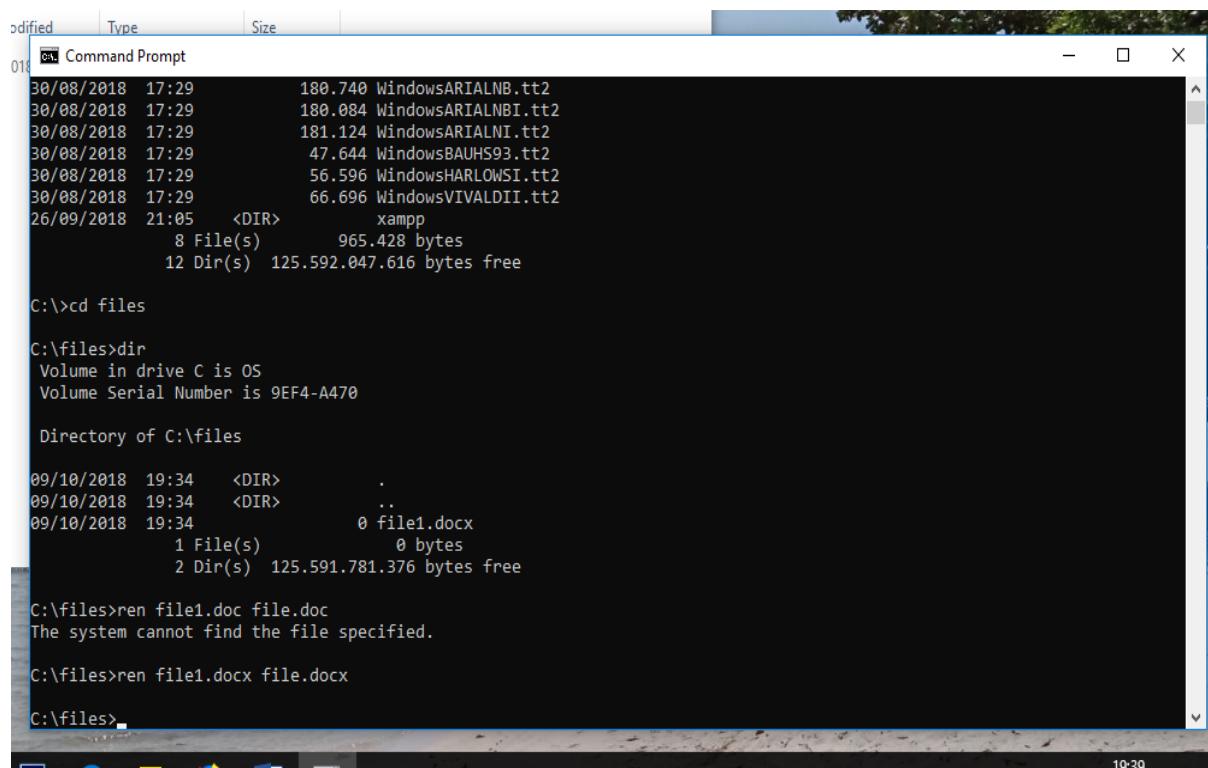
Directory of C:\files

09/10/2018 19:34 <DIR> .
09/10/2018 19:34 <DIR> ..
09/10/2018 19:34 0 file1.docx
1 File(s) 0 bytes
2 Dir(s) 125.591.781.376 bytes free

C:\files>ren file1.doc file.doc
```

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Langkah 13 , 14, 15 & 16:



The screenshot shows a Windows Command Prompt window titled "Command Prompt". The command history is as follows:

```
01: 30/08/2018 17:29      180.740 WindowsARIALNB.tt2
01: 30/08/2018 17:29      180.084 WindowsARIALNBI.tt2
01: 30/08/2018 17:29      181.124 WindowsARIALNI.tt2
01: 30/08/2018 17:29      47.644 WindowsBAUHS93.tt2
01: 30/08/2018 17:29      56.596 WindowsHARLOWSI.tt2
01: 30/08/2018 17:29      66.696 WindowsVIVALDII.tt2
01: 26/09/2018 21:05    <DIR>          xampp
01:                         8 File(s)   965.428 bytes
01:                         12 Dir(s)  125.592.047.616 bytes free

C:\>cd files

C:\files>dir
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

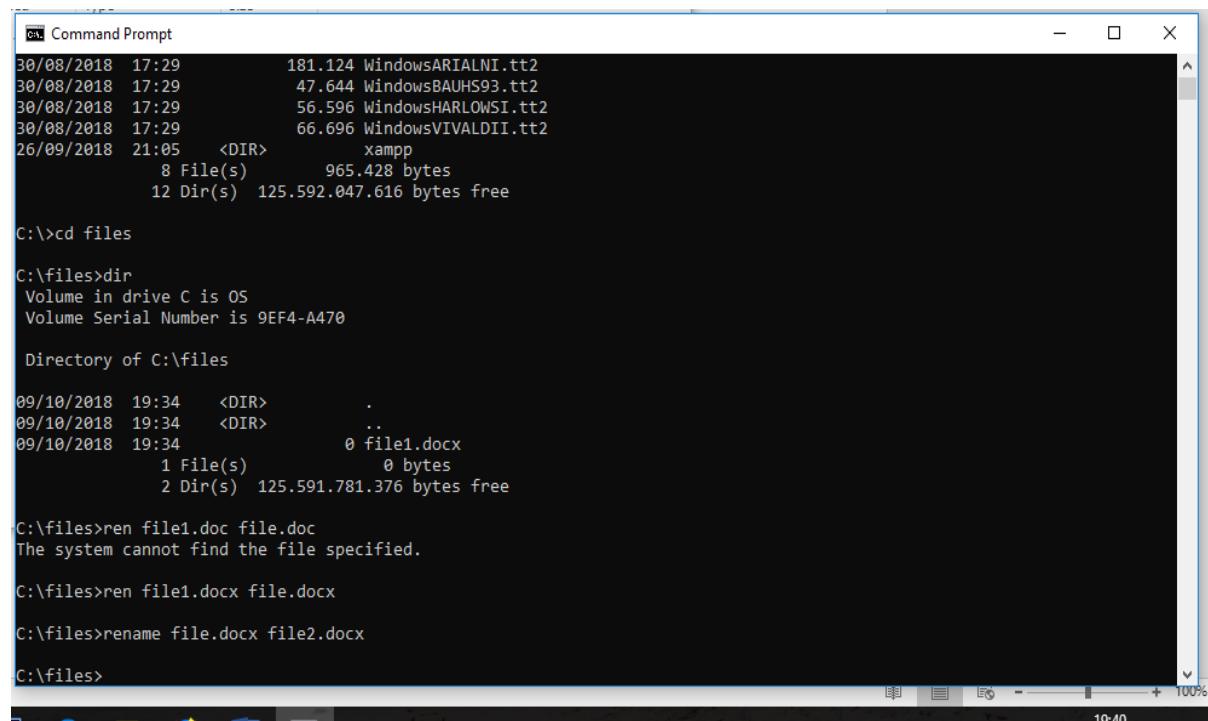
Directory of C:\files

09/10/2018 19:34    <DIR>          .
09/10/2018 19:34    <DIR>          ..
09/10/2018 19:34            0 file1.docx
09/10/2018 19:34            0 bytes
09/10/2018 19:34    1 File(s)   0 bytes
09/10/2018 19:34    2 Dir(s)  125.591.781.376 bytes free

C:\files>ren file1.doc file.doc
The system cannot find the file specified.

C:\files>ren file1.docx file.docx

C:\files>
```



The screenshot shows a Windows Command Prompt window titled "Command Prompt". The command history is as follows:

```
01: 30/08/2018 17:29      181.124 WindowsARIALNI.tt2
01: 30/08/2018 17:29      47.644 WindowsBAUHS93.tt2
01: 30/08/2018 17:29      56.596 WindowsHARLOWSI.tt2
01: 30/08/2018 17:29      66.696 WindowsVIVALDII.tt2
01: 26/09/2018 21:05    <DIR>          xampp
01:                         8 File(s)   965.428 bytes
01:                         12 Dir(s)  125.592.047.616 bytes free

C:\>cd files

C:\files>dir
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

Directory of C:\files

09/10/2018 19:34    <DIR>          .
09/10/2018 19:34    <DIR>          ..
09/10/2018 19:34            0 file1.docx
09/10/2018 19:34            0 bytes
09/10/2018 19:34    1 File(s)   0 bytes
09/10/2018 19:34    2 Dir(s)  125.591.781.376 bytes free

C:\files>ren file1.doc file.doc
The system cannot find the file specified.

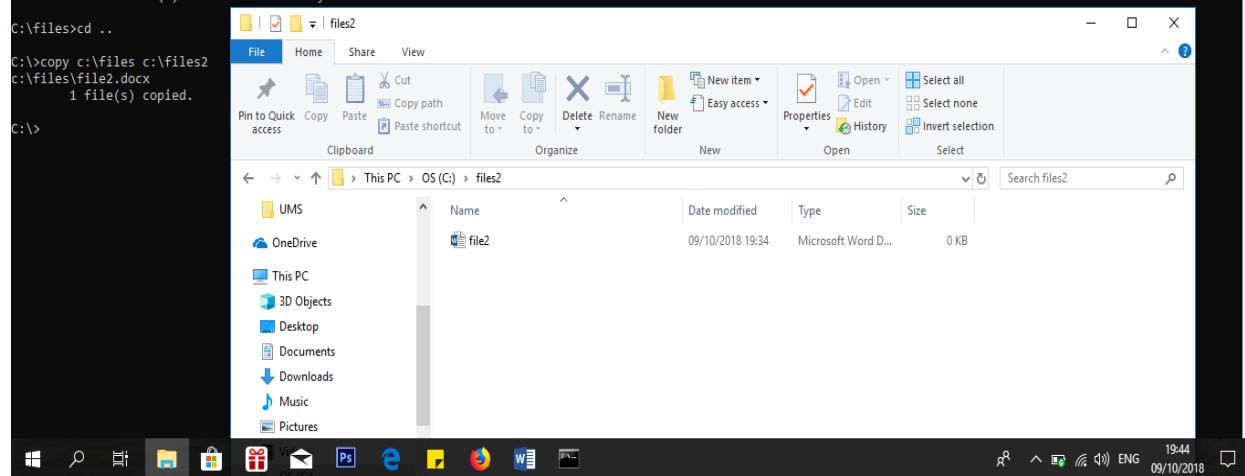
C:\files>ren file1.docx file2.docx

C:\files>
```

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- Percobaan keempat: copy file dan menghapus file (copy, del, xcopy)

Langkah 17-21:



Langkah 22-26:

```
Administrator:~ Command Prompt
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

Directory of C:\files

09/10/2018  19:40      <DIR>          .
09/10/2018  19:40      <DIR>          ..
09/10/2018  19:34           1 File(s)       0 bytes
                           2 Dir(s)   125,588,746,240 bytes free

C:\files>cd ..

C:\>copy c:\files c:\files2
c:\files\file2.docx
      1 file(s) copied.

C:\>cd files

C:\files>copy c:\files\file.docx d:\
The system cannot find the file specified.

C:\files>copy c:\files\file2.docx d:\\
      1 file(s) copied.

C:\files>D:

D:\>dir
 Volume in drive D has no label.
 Volume Serial Number is A0B5-6740

Directory of D:\

09/10/2018  19:34           0 file2.docx
30/08/2018  17:56      <DIR>          Lagu
27/09/2018  08:37      <DIR>          Red Haed
25/09/2018  23:18   4,617,928,704 rhel-server-7.5-x86_64-dvd_2.iso
15/09/2018  15:00      <DIR>          Windows10Upgrade
                           2 File(s)       4,617,928,704 bytes
                           3 Dir(s)   388,279,840,768 bytes free

D:\>C:

C:\files>del files
```

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Langkah 27:

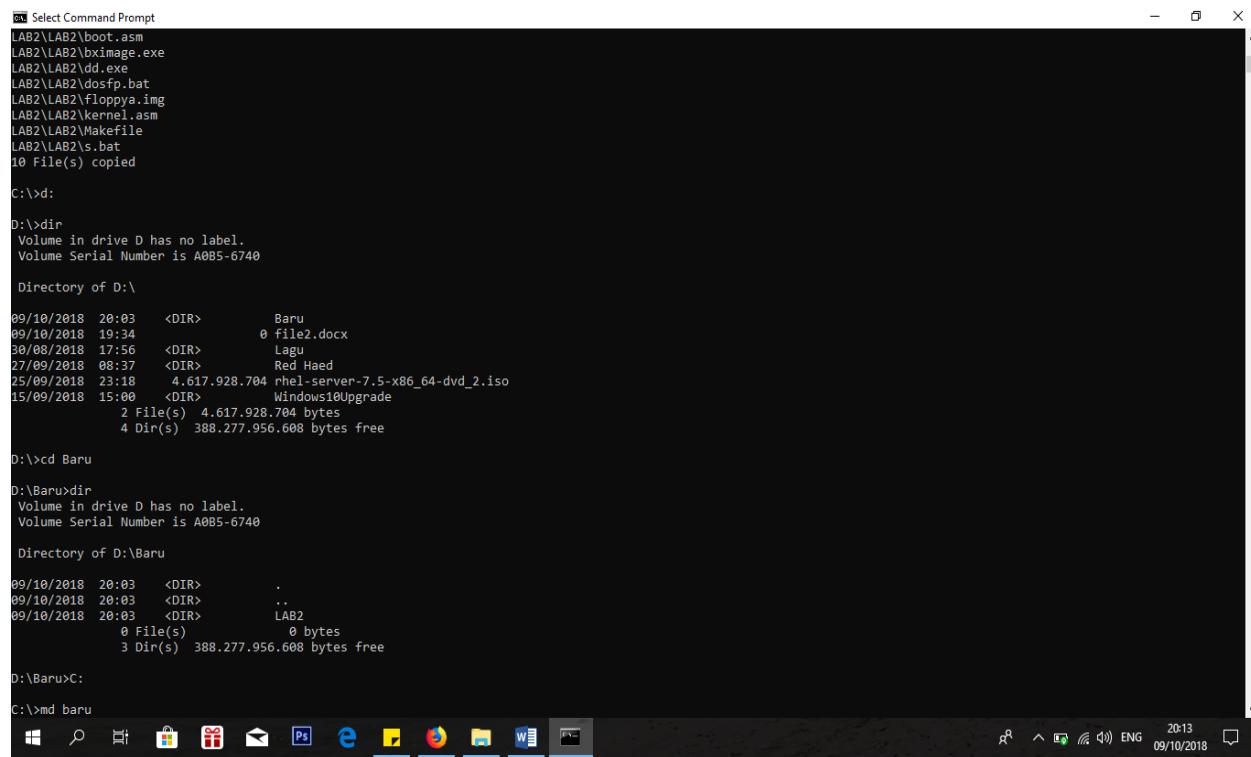
```
cmd Select Command Prompt  
C:\files>del files  
Could Not Find C:\files\files  
  
C:\files>c:  
  
C:\files>cd ..  
  
C:\>del files  
C:\files\*, Are you sure (Y/N)? y  
  
C:\>cd documents and settings
```

Langkah 30, 31, dan 32:

```
cmd Command Prompt  
C:\>xcopy LAB2 D:\Baru\ /s/e  
LAB2\LAB2\bochs.log  
LAB2\LAB2\bochsrc.bxrc  
LAB2\LAB2\boot.asm  
LAB2\LAB2\bximage.exe  
LAB2\LAB2\dd.exe  
LAB2\LAB2\dosfp.bat  
LAB2\LAB2\floppya.img  
LAB2\LAB2\kernel.asm  
LAB2\LAB2\Makefile  
LAB2\LAB2\s.bat  
10 File(s) copied  
  
C:\>d:  
  
D:\>dir  
Volume in drive D has no label.  
Volume Serial Number is A0B5-6740  
  
Directory of D:\  
  
09/10/2018 20:03 <DIR> Baru  
09/10/2018 19:34 0 file2.docx  
30/08/2018 17:56 <DIR> Lagu  
27/09/2018 08:37 <DIR> Red Haed  
25/09/2018 23:18 4.617.928.704 rhel-server-7.5-x86_64-dvd_2.iso  
15/09/2018 15:00 <DIR> Windows10Upgrade  
2 File(s) 4.617.928.704 bytes  
4 Dir(s) 388.277.956.608 bytes free  
  
D:\>cd Baru  
  
D:\Baru>dir  
Volume in drive D has no label.  
Volume Serial Number is A0B5-6740  
  
Directory of D:\Baru  
  
09/10/2018 20:03 <DIR> .  
09/10/2018 20:03 <DIR> ..  
09/10/2018 20:03 <DIR> LAB2  
0 File(s) 0 bytes  
3 Dir(s) 388.277.956.608 bytes free
```

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Langkah 33 & 34:



```
cmd Select Command Prompt
LAB2\LAB2\boot.asm
LAB2\LAB2\bximage.exe
LAB2\LAB2\dd.exe
LAB2\LAB2\dosfp.bat
LAB2\LAB2\floppya.img
LAB2\LAB2\kernel.asm
LAB2\LAB2\Makefile
LAB2\LAB2\s.bat
10 File(s) copied

C:\>cd

D:\>dir
Volume in drive D has no label.
Volume Serial Number is A0B5-6740

Directory of D:\

09/10/2018 20:03 <DIR> Baru
09/10/2018 19:34 0 file2.docx
30/08/2018 17:56 <DIR> Lagu
27/09/2018 08:37 <DIR> Red Haed
25/09/2018 23:18 4.617.928.704 rhel-server-7.5-x86_64-dvd_2.iso
15/09/2018 15:00 <DIR> Windows10Upgrade
2 File(s) 4.617.928.704 bytes
4 Dir(s) 388.277.956.608 bytes free

D:\>cd Baru

D:\Baru>dir
Volume in drive D has no label.
Volume Serial Number is A0B5-6740

Directory of D:\Baru

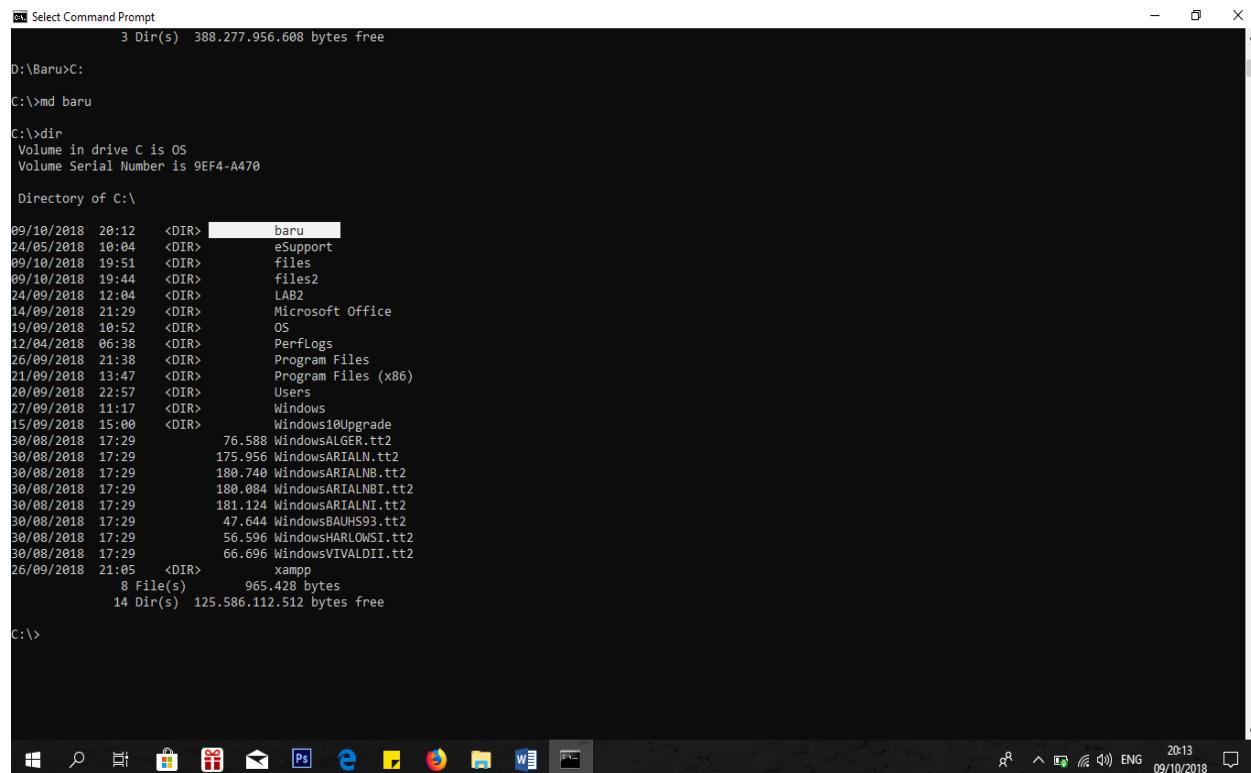
09/10/2018 20:03 <DIR> .
09/10/2018 20:03 <DIR> ..
09/10/2018 20:03 <DIR> LAB2
0 File(s) 0 bytes
3 Dir(s) 388.277.956.608 bytes free

D:\Baru>C:
C:\>md baru

Windows Taskbar icons: Start, Search, File Explorer, Mail, Photos, Edge, File Explorer, Word, Paint, Task View, Taskbar controls.
```

- Percobaan kelima: membuat dan menghapus directory (md, rd, mkdir, rmdir)

Langkah 35-38:



```
cmd Select Command Prompt
3 Dir(s) 388.277.956.608 bytes free

D:\Baru>C:
C:\>md baru

C:\>dir
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

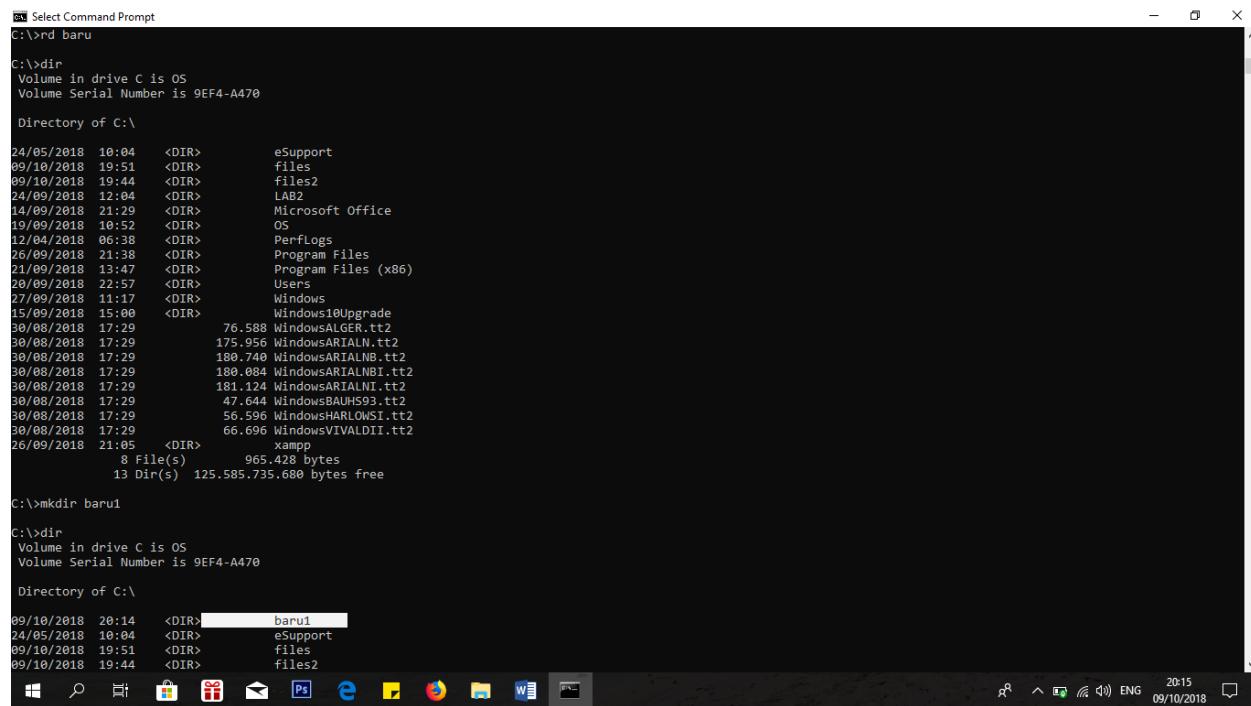
Directory of C:\

09/10/2018 20:12 <DIR> baru
24/05/2018 10:04 <DIR> eSupport
09/10/2018 19:51 <DIR> files
09/10/2018 19:44 <DIR> files2
24/09/2018 12:04 <DIR> LAB2
14/09/2018 21:29 <DIR> Microsoft Office
19/09/2018 10:52 <DIR> OS
12/04/2018 06:38 <DIR> PerfLogs
26/09/2018 21:38 <DIR> Program Files
21/09/2018 13:47 <DIR> Program Files (x86)
20/09/2018 22:57 <DIR> Users
27/09/2018 11:17 <DIR> Windows
15/09/2018 15:00 <DIR> Windows10Upgrade
30/08/2018 17:29 76.588 WindowsALGER.tt2
30/08/2018 17:29 175.956 WindowsARIALNB.tt2
30/08/2018 17:29 188.740 WindowsARIALNB.tt2
30/08/2018 17:29 188.084 WindowsARIALNB1.tt2
30/08/2018 17:29 181.124 WindowsARIALNT.tt2
30/08/2018 17:29 47.044 WindowsBAUHS93.tt2
30/08/2018 17:29 56.596 WindowsSHARLOWSI.tt2
30/08/2018 17:29 66.696 WindowsVIVALDII.tt2
26/09/2018 21:05 <DIR> xampp
8 File(s) 965.428 bytes
14 Dir(s) 125.586.112.512 bytes free

C:\>
```

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Langkah 39-42:



```
cmd Select Command Prompt
C:\>rmdir baru
C:\>dir
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

Directory of C:\

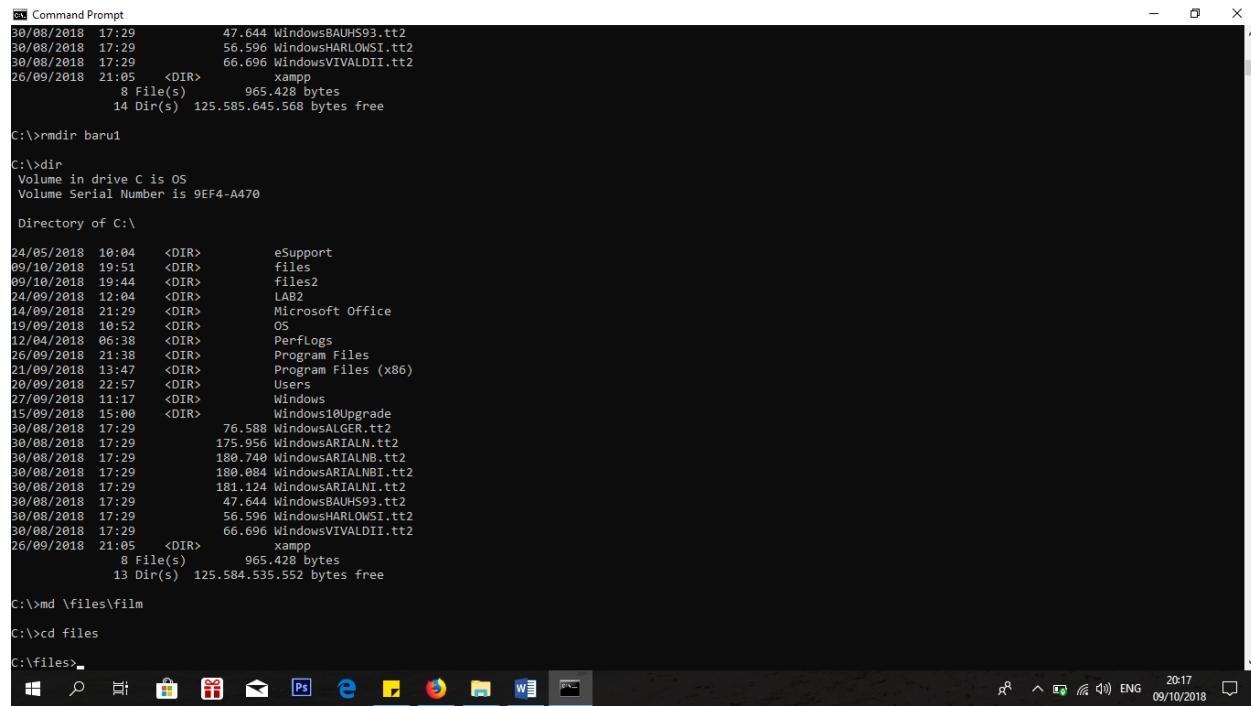
24/05/2018 10:04    <DIR>          eSupport
09/10/2018 19:51    <DIR>          files
09/10/2018 19:44    <DIR>          files2
24/09/2018 12:04    <DIR>          LAB2
14/09/2018 21:29    <DIR>          Microsoft Office
19/09/2018 10:52    <DIR>          OS
12/04/2018 06:38    <DIR>          PerfLogs
26/09/2018 21:38    <DIR>          Program Files
21/09/2018 13:47    <DIR>          Program Files (x86)
20/09/2018 22:57    <DIR>          Users
27/09/2018 11:17    <DIR>          Windows
15/09/2018 15:00    <DIR>          Windows10Upgrade
30/08/2018 17:29    76.588 WindowsALGER.tt2
30/08/2018 17:29    175.956 WindowsARIALN.tt2
30/08/2018 17:29    180.748 WindowsARIALNB.tt2
30/08/2018 17:29    180.084 WindowsARIALNBI.tt2
30/08/2018 17:29    181.124 WindowsARIALNLT.tt2
30/08/2018 17:29    47.644 WindowsBAUHS93.tt2
30/08/2018 17:29    56.598 WindowsHARLOWSI.tt2
30/08/2018 17:29    66.696 WindowsVIVALDII.tt2
26/09/2018 21:05    <DIR>         xampp
     8 File(s)      965.428 bytes
   13 Dir(s)  125.585.735.680 bytes free

C:\>mkdir baru1
C:\>dir
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

Directory of C:\

09/10/2018 20:14    <DIR>  baru1
24/05/2018 10:04    <DIR>          eSupport
09/10/2018 19:51    <DIR>          files
09/10/2018 19:44    <DIR>          files2
```

Langkah 43-50 :



```
cmd Command Prompt
30/08/2018 17:29    47.644 WindowsBAUHS93.tt2
30/08/2018 17:29    56.598 WindowsHARLOWSI.tt2
30/08/2018 17:29    66.696 WindowsVIVALDII.tt2
26/09/2018 21:05    <DIR>         xampp
     8 File(s)      965.428 bytes
   14 Dir(s)  125.585.645.568 bytes free

C:\>rmdir baru1
C:\>dir
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

Directory of C:\

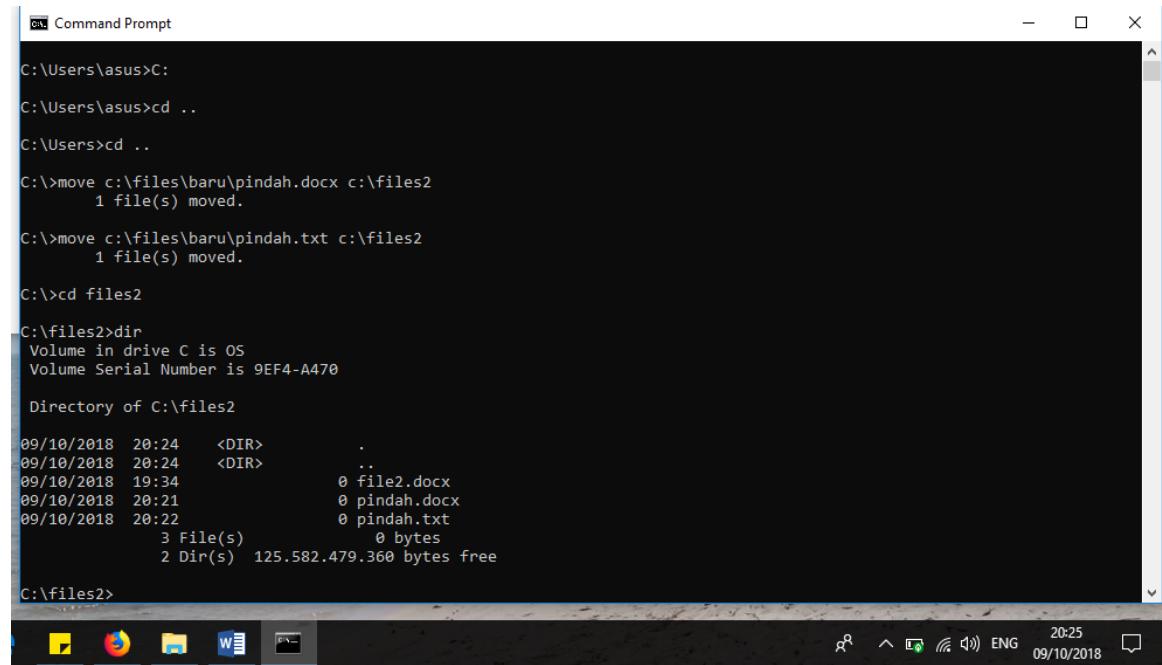
24/05/2018 10:04    <DIR>          eSupport
09/10/2018 19:51    <DIR>          files
09/10/2018 19:44    <DIR>          files2
24/09/2018 12:04    <DIR>          LAB2
14/09/2018 21:29    <DIR>          Microsoft Office
19/09/2018 10:52    <DIR>          OS
12/04/2018 06:38    <DIR>          PerfLogs
26/09/2018 21:38    <DIR>          Program Files
21/09/2018 13:47    <DIR>          Program Files (x86)
20/09/2018 22:57    <DIR>          Users
27/09/2018 11:17    <DIR>          Windows
15/09/2018 15:00    <DIR>          Windows10Upgrade
30/08/2018 17:29    76.588 WindowsALGER.tt2
30/08/2018 17:29    175.956 WindowsARIALN.tt2
30/08/2018 17:29    180.748 WindowsARIALNB.tt2
30/08/2018 17:29    180.084 WindowsARIALNBI.tt2
30/08/2018 17:29    181.124 WindowsARIALNLT.tt2
30/08/2018 17:29    47.644 WindowsBAUHS93.tt2
30/08/2018 17:29    56.598 WindowsHARLOWSI.tt2
30/08/2018 17:29    66.696 WindowsVIVALDII.tt2
26/09/2018 21:05    <DIR>         xampp
     8 File(s)      965.428 bytes
   13 Dir(s)  125.584.535.552 bytes free

C:\>md \files\film
C:\>cd files
C:\files>
```

Riris Agriela Savitri
L200170029/B

- Percobaan keenam: memindahkan file dan menampilkan isi folder secara terstruktur (move, tree)

Langkah 51-59:



```
Command Prompt

C:\Users\asus>C:
C:\Users\asus>cd ..
C:\Users>cd ..
C:\>move c:\files\baru\pindah.docx c:\files2
      1 file(s) moved.

C:\>move c:\files\baru\pindah.txt c:\files2
      1 file(s) moved.

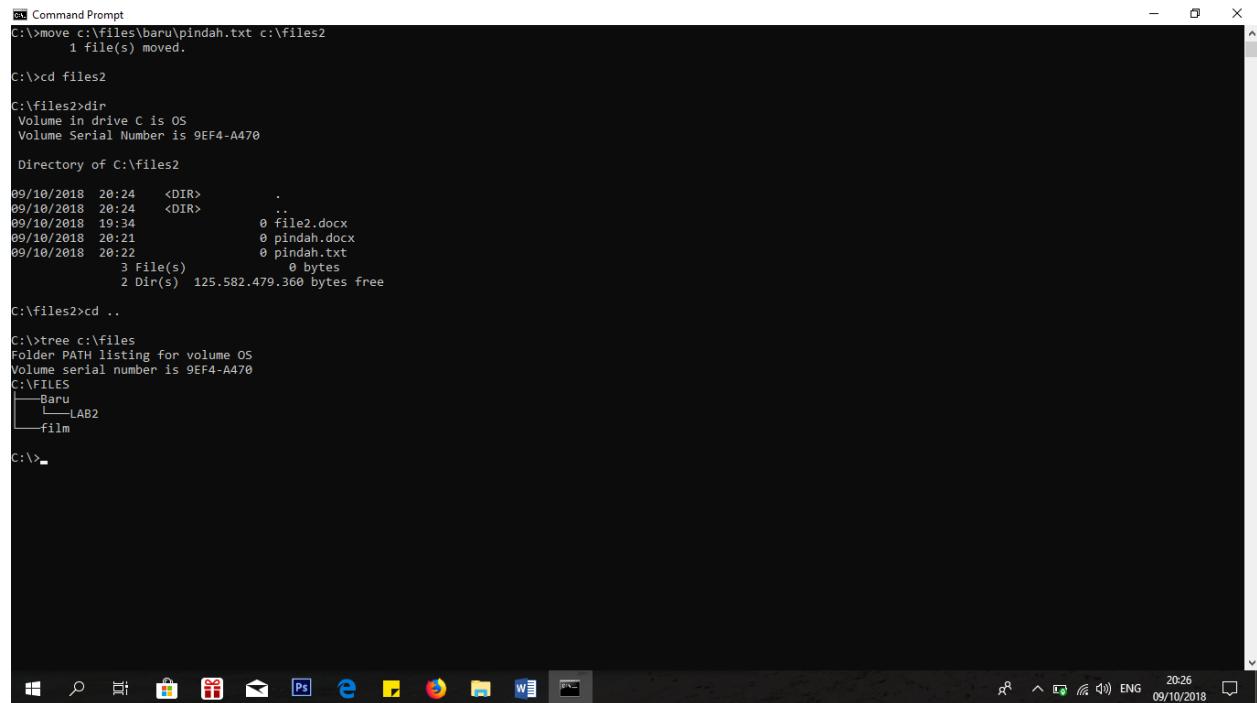
C:\>cd files2
C:\files2>dir
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

Directory of C:\files2

09/10/2018  20:24    <DIR>        .
09/10/2018  20:24    <DIR>        ..
09/10/2018  19:34            0 file2.docx
09/10/2018  20:21            0 pindah.docx
09/10/2018  20:22            0 pindah.txt
                           3 File(s)       0 bytes
                           2 Dir(s)  125.582.479.360 bytes free

C:\files2>
```

Langkah 60-63 :



```
Command Prompt

C:\>move c:\files\baru\pindah.txt c:\files2
      1 file(s) moved.

C:\>cd files2
C:\files2>dir
Volume in drive C is OS
Volume Serial Number is 9EF4-A470

Directory of C:\files2

09/10/2018  20:24    <DIR>        .
09/10/2018  20:24    <DIR>        ..
09/10/2018  19:34            0 file2.docx
09/10/2018  20:21            0 pindah.docx
09/10/2018  20:22            0 pindah.txt
                           3 File(s)       0 bytes
                           2 Dir(s)  125.582.479.360 bytes free

C:\files2>cd ..
C:\>tree c:\files
Folder PATH listing for volume OS
Volume serial number is 9EF4-A470
C:\FILES
    └── Baru
        └── LAB2
            └── film

C:\>w
```

Riris Agriela Savitri
L200170029/B

```
cmd Command Prompt
x86 wcf-system.runtime.serialization_b03f5f7f11d50a3a_10.0.17134.1._none_9763f66a5223b9ce
x86 wcf-system.runtime.serialization_b03f5f7f11d50a3a_10.0.17134.1._none_c437085eb7ba7420
x86 wcf-system.runtime.serialization_b03f5f7f11d50a3a_10.0.17134.254._none_c847077248116a0e
x86 wcf-system.servicemodel_b03f5f7f11d50a3a_10.0.17134.254._none_dief184a827a31d2
x86 wcf-system.servicemodel_b03f5f7f11d50a3a_10.0.17134.254._none_dfff175e12d127c0
x86 windows-defender-management-powershell_31bf3856ad364e35_10.0.17134.1._none_6d254bde521f19f0
x86 windows-networking.vpn.resources_31bf3856ad364e35_10.0.17134.1._en-us_d77d48ce66d35411
x86 wpf-penname_31bf3856ad364e35_10.0.17134.1._none_351303bb57ac80d
x86 wpf-presentationildtasks_31bf3856ad364e35_10.0.17134.1._none_d96f2fb1fe487cf5
x86 wpf-presentationcffrasterizeralternative_31bf3856ad364e35_10.0.17134.1._none_52f747fef3ff65ea
x86 wpf-presentationframework.aero_31bf3856ad364e35_10.0.17134.1._none_bb5e06a6b95e4290
x86 wpf-presentationframework.classic_31bf3856ad364e35_10.0.17134.1._none_7dc0360dd9a2006d
x86 wpf-presentationframework.luna_31bf3856ad364e35_10.0.17134.1._none_bac08948ba0885a13
x86 wpf-presentationframework.royale_31bf3856ad364e35_10.0.17134.1._none_741721cd5b0f73a3
x86 wpf-presentationframework._31bf3856ad364e35_10.0.17134.1._none_f7e84cd0a0635c5d
x86 wpf-presentationhostdll_31bf3856ad364e35_10.0.17134.1._none_f96d5e0cd0cc307b
x86 wpf-presentationhostexe_31bf3856ad364e35_10.0.17134.1._none_f9562424d0e0ad2ed
x86 wpf-presentationhostproxy_31bf3856ad364e35_10.0.17134.1._none_b3ed07802a9c121f
x86 wpf-reachframeworknative_31bf3856ad364e35_10.0.17134.1._none_e027fcadff74d3d9c
x86 wpf-reachframeworknative_31bf3856ad364e35_10.0.17134.1._none_898c1c03d9867518
x86 wpf-speech_31bf3856ad364e35_10.0.17134.1._none_9b1ee10ecd5ac4ba
x86 wpf-terminalservicewrapperexe_31bf3856ad364e35_10.0.17134.1._none_adc1305e7c6c7882
x86 wpf-uiautomationclientsideproviders_31bf3856ad364e35_10.0.17134.1._none_de1e0138ff33512c
x86 wpf-uiautomationclient_63dae993f21563bd
x86 wpf-uiautomationprovider_31bf3856ad364e35_10.0.17134.1._none_8dfec2293bbed7cb
x86 wpf-uiautomationtypes_31bf3856ad364e35_10.0.17134.1._none_e67412414bbd8125
x86 wpf-windowsbase_31bf3856ad364e35_10.0.17134.1._none_e0cefdb7f8931433
x86 wpf-windowsformsintegration_31bf3856ad364e35_10.0.17134.1._none_837e00372c9d063f
x86 wpf-winxflist_31bf3856ad364e35_10.0.17134.1._none_ca3e438aaed0987
x86 wpf-winxftargets_31bf3856ad364e35_10.0.17134.1._none_5299856e2b02c29
x86 wpf-xamlviewerapplicationmanifest_31bf3856ad364e35_10.0.17134.1._none_file7288281a9716c
x86 wpf-xamlviewerdeploymentmanifest_31bf3856ad364e35_10.0.17134.1._none_f0cfa4947f299fb9
x86 wpf-xamlviewer_31bf3856ad364e35_10.0.17134.1._none_df703d52db9d043
x86 wwf-cperfcm_31bf3856ad364e35_10.0.17134.1._none_a8ff0e6e0154555
x86 wwf-cwetargets_1_31bf3856ad364e35_10.0.17134.1._none_29bdb768b9a59f5
x86 wwf-cvevtargets_1_31bf3856ad364e35_10.0.17134.1._none_4f162cc4251cf711
x86 wwf-perfcnt_ini_31bf3856ad364e35_10.0.17134.1._none_fd2655fdac1e4d73
x86 wwf-system.workflow.activities_31bf3856ad364e35_10.0.17134.1._none_bbc7e3b628cba20d
x86 wwf-system.workflow.activities_31bf3856ad364e35_10.0.17134.280._none_b7c166f615d8be26
x86 wwf-system.workflow.componentmodel_31bf3856ad364e35_10.0.17134.1._none_15460a4cbee29d7e
x86 wwf-system.workflow.componentmodel_31bf3856ad364e35_10.0.17134.280._none_113f8d8cabefee697
x86 wwf-system.workflow.runtime_31bf3856ad364e35_10.0.17134.1._none_ee7ccc6d50d3e92
x86 wwf-system.workflow.runtime_31bf3856ad364e35_10.0.17134.280._none_ea7651ad3de137ab
```

MODUL 5

Pengenalan Sistem Operasi Linux

1. Jelaskan distro linux yang ada saat ini
 - a. **Ubuntu** : Sistem operasi yang berbasiskan pada debian dan dikembangkan di Afrika Selatan.
 - b. **Debian** : pencetusnya Ian Murdock. Linux ini cukup unik karena nama Debian ini merupakan kombinasi dari nama kekasihnya. Debian dijuluki sebagai bapaknya distro linux, karena saking banyaknya distro linux yang berbasis Debian. Sedangkan Debian testing dan unstable sangat cocok digunakan untuk pengguna desktop yang menginginkan komputernya selalu menggunakan OS dan aplikasi versi terbaru.
 - c. **Elementary OS** : Distro linux favorit saat ini. Distro cantik nan elegan ini adalah turunan dari Ubuntu, karenanya, semua aplikasi yang dapat berjalan di Ubuntu dan Debian juga dapat berjalan dengan mulus di elementary OS.
 - d. **Antergos** : Awalnya adalah distro linux yang tidak begitu dikenal. Antergos adalah distro rolling release berbasis Arch Linux.
 - e. **Solus** : memiliki repository sendiri yang sangat besar. Hampir semua software yang bisa kamu gunakan di distro lain, dapat ditemukan di repository milik Solus. Solus, menggunakan skema update Rolling Release. Yang artinya, sistem operasi akan terus mendapatkan pembaruan, tanpa perlu melakukan fresh install ataupun install ulang.
2. Jelaskan 20 perintah distro linux!
 1. Ls : untuk melihat isi file dari suatu direktori
 2. Cd : untuk pindah dari direktori 1 ke direktori lainnya
 3. Cp : untuk mengcopy suatu file
 4. Rm : untuk menghapus suatu file
 5. Date : untuk mengubah tanggal dan waktu computer
 6. Top : untuk melihat proses yang berjalan pada SO Linux
 7. Df : untuk melihat informasi pemakaian disk pada seluruh system
 8. Ps : untuk melihat proses yang di jalankan oleh user
 9. adduser : untuk menambah user
 10. Clear : untuk membersihkan layar
 11. mkdir : untuk membuat direktori
 12. rmdir : untuk menghapus direktori
 13. touch : untuk membuat file
 14. mv : untuk memindahkan file
 15. ren : untuk mengubah nama file
 16. nano/pico : untuk mengedit file
 17. whoami : untuk melihat login name
 18. passwd : untuk mengubah kata sandi User
 19. Time : untuk melihat waktu sekarang
 20. tail : menampilkan 10 baris terakhir

3. Jelaskan maksud perintah 'init 0', 'init 1', 'init 2', 'init 3', 'init 4', 'init 5' dan 'init 6'.
 - a. **init 0** : Digunakan utk maintenance, diagnostic hardware, booting selain dari disk misal dari cdrom.
command : init 0, shutdown -i0
 - b. **init 1** : Single user mode, digunakan untuk menambahkan patches, backup/restore sistem. Di level ini kita bisa menjalankan/access semua file tapi user lain tidak bisa login ke dalam sytem kita.
command : init 1, shutdown -i1
 - c. **init 2** : multiuser mode, biasanya untuk digunakan dalam network. Tapi disini tidak ada resources yang di share.
command : init2, shutdown -i2
 - d. **init 3** : memperluas multiuser mode,kita bisa membuat local resources share pada network kita. Sehingga kita bisa berbagi data dilevel ini dalam network.
command : init 3, shutdown -i3
 - e. **init 4** : untuk alternative multiuser mode tetapi saat ini belum bisa digunakan.
command : init4, shutdown -i4
 - f. **init 5** : untuk shutdown/ power off.
command : init5, shutdown -i5
 - g. **init 6** : menstop operating sistem kemudian reboot dan kembali ke init defaultnya yang ada di /etc/init tab.
command : init 6, shutdown -i6

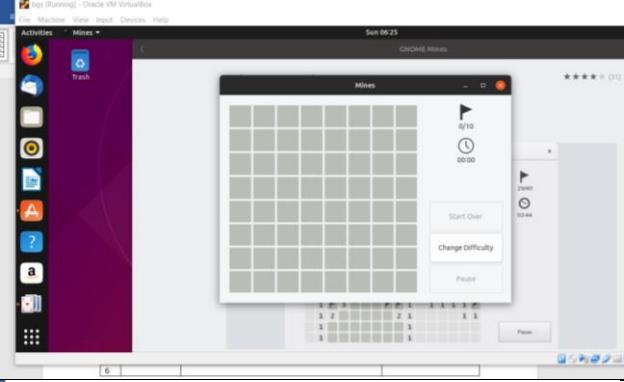
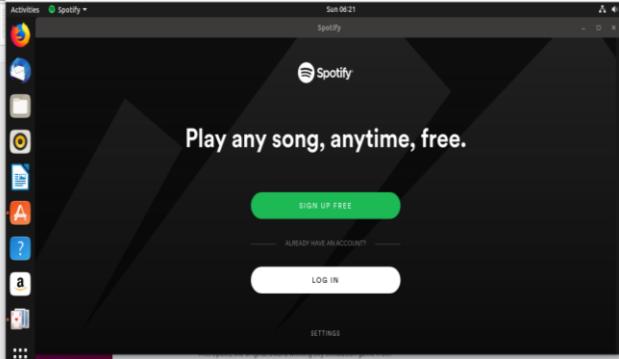
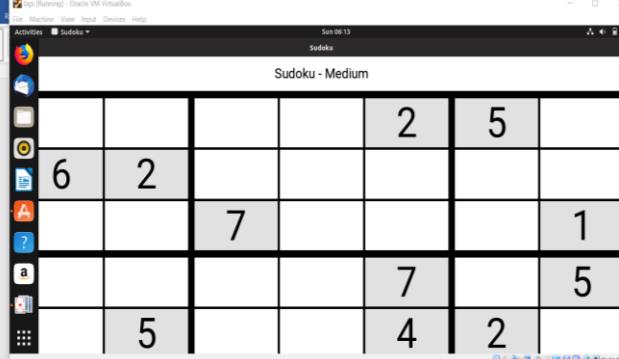
4. Jelaskan maksud dari perintah 'quota'

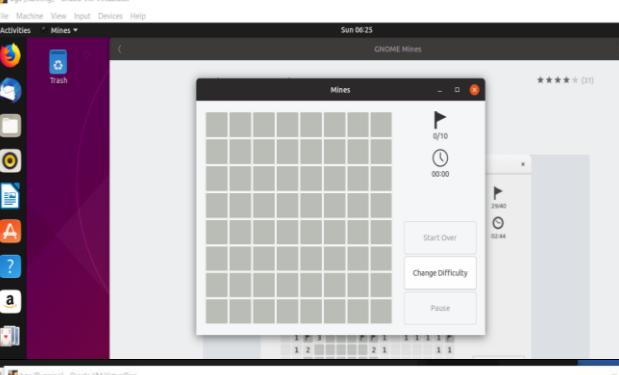
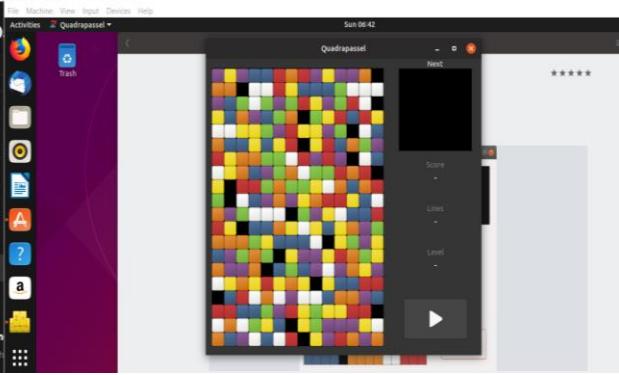
Quota : menampilkan pengguna disk, limit ruang kosong untuk user.

MODUL 6

Instalasi sistem operasi linux, dan menambah aplikasi linux

- INSTAL APLIKASI YANG BERBEDA PADA LINUX

| NO | Apilikasi | Tampilan | Fungsi |
|----|----------------|--|---------------------------|
| 1 | Gnome mah-jong |  | Bermain game |
| 2 | Spotify |  | Untuk mendengarkan musik |
| 3 | Sudoku-game |  | Untuk bermain game Sudoku |

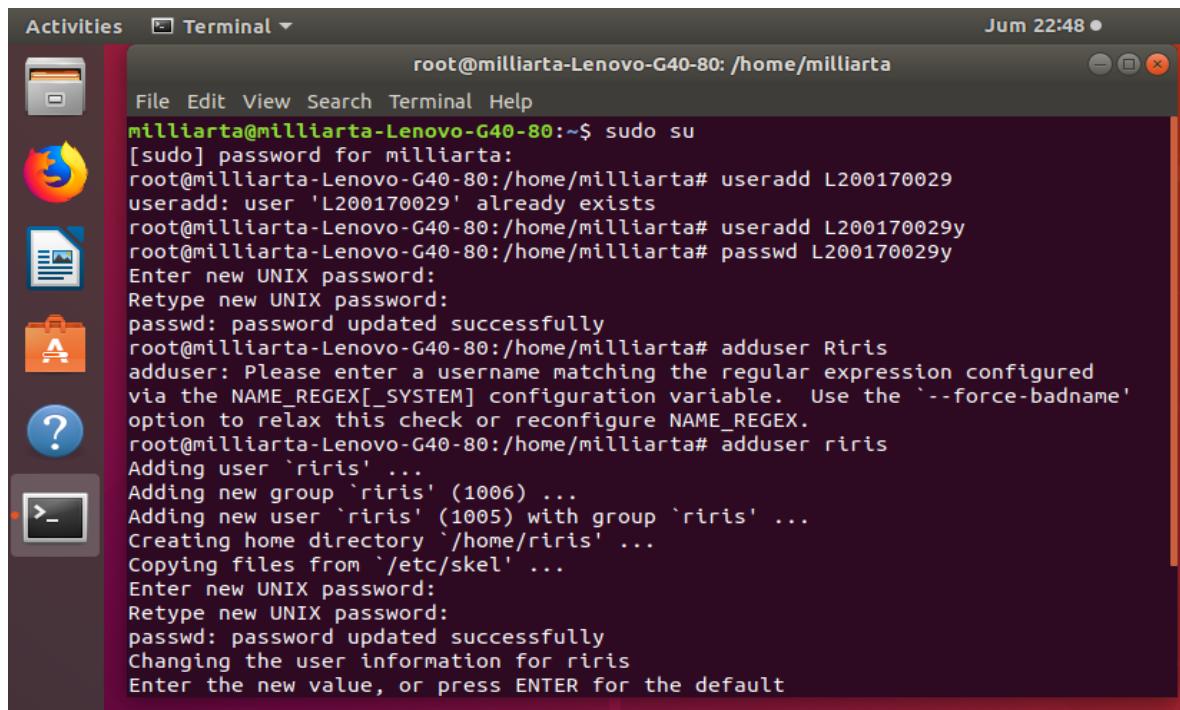
| | | | |
|---|---------------------|--|-------------------------------|
| 4 | Micropolis |  | Untuk bermain game metropolis |
| 5 | Gnome Mines |  | Untuk bermain game solitaire |
| 6 | Aisleriot solitaire |  | Bermain game |
| 7 | quadrapsel |  | Bermain game |

| | | | |
|-----|---------------|--|----------------|
| 8. | Mahjongg | | Permainan game |
| 9. | Hotspot login | | Untuk hotspot |
| 10. | Sublime Text | | |

Modul 7

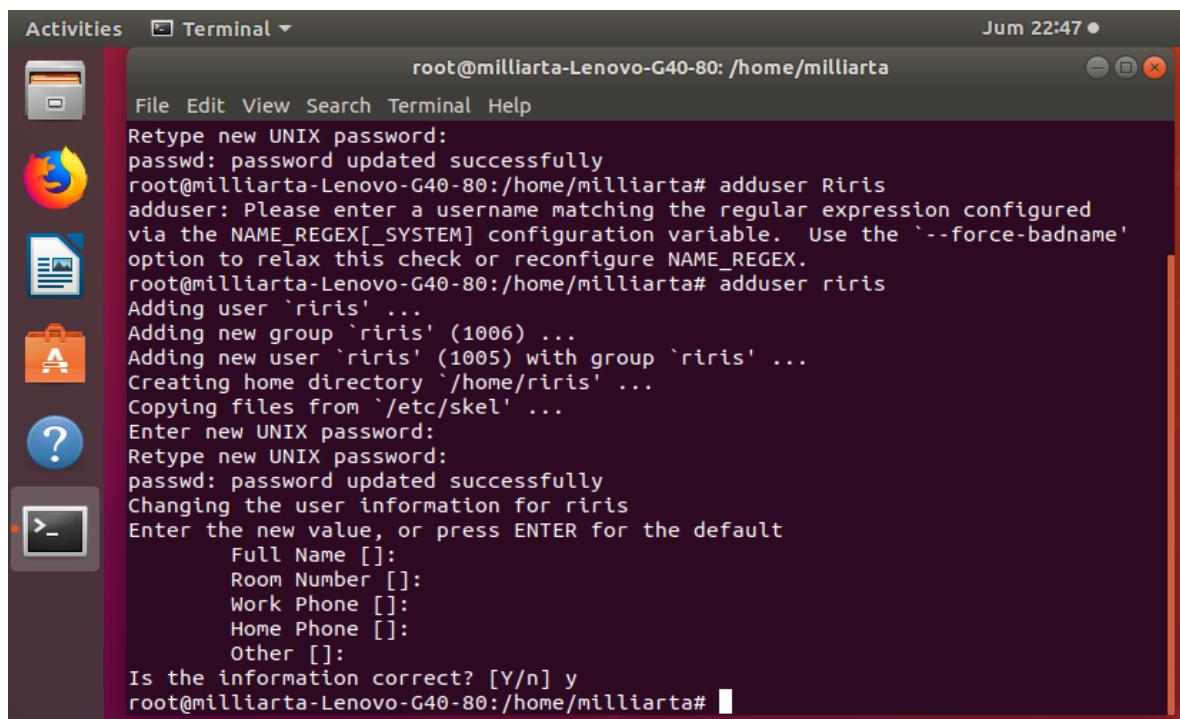
Management User dan Permission direktori/file pada Linux

- Praktikum 1:



A screenshot of a Linux desktop environment showing a terminal window. The terminal window title is "root@milliarta-Lenovo-G40-80: /home/milliarta". The terminal content shows the root user running several commands to manage users:

```
root@milliarta-Lenovo-G40-80:~$ sudo su
[sudo] password for milliarta:
root@milliarta-Lenovo-G40-80:~/home/milliarta# useradd L200170029
useradd: user 'L200170029' already exists
root@milliarta-Lenovo-G40-80:~/home/milliarta# useradd L200170029y
root@milliarta-Lenovo-G40-80:~/home/milliarta# passwd L200170029y
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
root@milliarta-Lenovo-G40-80:~/home/milliarta# adduser Riris
adduser: Please enter a username matching the regular expression configured
via the NAME_REGEX[_SYSTEM] configuration variable. Use the '--force-badname'
option to relax this check or reconfigure NAME_REGEX.
root@milliarta-Lenovo-G40-80:~/home/milliarta# adduser riris
Adding user `riris' ...
Adding new group `riris' (1006) ...
Adding new user `riris' (1005) with group `riris' ...
Creating home directory `/home/riris' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for riris
Enter the new value, or press ENTER for the default
```



A screenshot of a Linux desktop environment showing a terminal window. The terminal window title is "root@milliarta-Lenovo-G40-80: /home/milliarta". The terminal content shows the root user running commands to create a user named "Riris" and then prompting for additional information:

```
root@milliarta-Lenovo-G40-80:~/home/milliarta# File Edit View Search Terminal Help
Retype new UNIX password:
passwd: password updated successfully
root@milliarta-Lenovo-G40-80:~/home/milliarta# adduser Riris
adduser: Please enter a username matching the regular expression configured
via the NAME_REGEX[_SYSTEM] configuration variable. Use the '--force-badname'
option to relax this check or reconfigure NAME_REGEX.
root@milliarta-Lenovo-G40-80:~/home/milliarta# adduser riris
Adding user `riris' ...
Adding new group `riris' (1006) ...
Adding new user `riris' (1005) with group `riris' ...
Creating home directory `/home/riris' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for riris
Enter the new value, or press ENTER for the default
      Full Name []:
      Room Number []:
      Work Phone []:
      Home Phone []:
      Other []:
Is the information correct? [Y/n] y
root@milliarta-Lenovo-G40-80:~/home/milliarta#
```

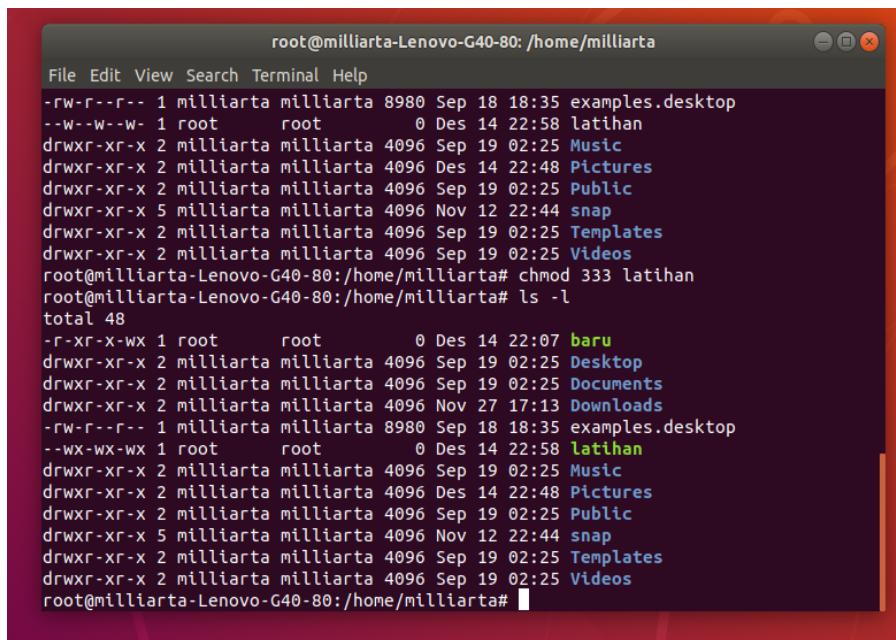
- Praktikum 2

```
root@milliarta-Lenovo-G40-80: /home/milliarta
File Edit View Search Terminal Help
milliarta@milliarta-Lenovo-G40-80:~$ sudo su
[sudo] password for milliarta:
root@milliarta-Lenovo-G40-80:/home/milliarta# touch latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# chmod 666 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# ls -l
total 48
-rwxr-x-wx 1 root      root      0 Des 14 22:07 baru
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Desktop
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Documents
drwxr-xr-x 2 milliarta milliarta 4096 Nov 27 17:13 Downloads
-rw-r--r-- 1 milliarta milliarta 8980 Sep 18 18:35 examples.desktop
-rw-rw-rw- 1 root      root      0 Des 14 22:58 latihan
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Music
drwxr-xr-x 2 milliarta milliarta 4096 Des 14 22:48 Pictures
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Public
drwxr-xr-x 5 milliarta milliarta 4096 Nov 12 22:44 snap
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Templates
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Videos
root@milliarta-Lenovo-G40-80:/home/milliarta# chmod 640 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# ls -l
total 48
-rxr-x-wx 1 root      root      0 Des 14 22:07 baru
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Desktop
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Documents
```

```
root@milliarta-Lenovo-G40-80: /home/milliarta
File Edit View Search Terminal Help
milliarta@milliarta-Lenovo-G40-80:~$ sudo su
[sudo] password for milliarta:
root@milliarta-Lenovo-G40-80:/home/milliarta# touch latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# chmod 111 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# ls -l
total 48
-rxr-x-wx 1 root      root      0 Des 14 22:07 baru
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Desktop
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Documents
drwxr-xr-x 2 milliarta milliarta 4096 Nov 27 17:13 Downloads
-rw-r--r-- 1 milliarta milliarta 8980 Sep 18 18:35 examples.desktop
-rw-r--r-- 1 root      root      0 Des 14 22:58 latihan
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Music
drwxr-xr-x 2 milliarta milliarta 4096 Des 14 22:48 Pictures
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Public
drwxr-xr-x 5 milliarta milliarta 4096 Nov 12 22:44 snap
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Templates
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Videos
root@milliarta-Lenovo-G40-80:/home/milliarta# chmod 111 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# ls -l
total 48
-rxr-x-wx 1 root      root      0 Des 14 22:07 baru
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Desktop
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Documents
drwxr-xr-x 2 milliarta milliarta 4096 Nov 27 17:13 Downloads
-rw-r--r-- 1 milliarta milliarta 8980 Sep 18 18:35 examples.desktop
--x--x--x 1 root      root      0 Des 14 22:58 latihan
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Music
drwxr-xr-x 2 milliarta milliarta 4096 Des 14 22:48 Pictures
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Public
```

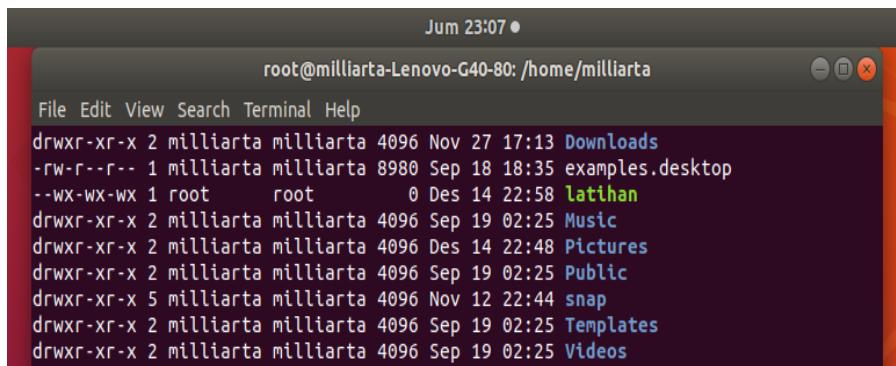
```
root@milliarta-Lenovo-G40-80: /home/milliarta
File Edit View Search Terminal Help
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Music
drwxr-xr-x 2 milliarta milliarta 4096 Des 14 22:48 Pictures
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Public
drwxr-xr-x 5 milliarta milliarta 4096 Nov 12 22:44 snap
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Templates
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Videos
root@milliarta-Lenovo-G40-80:/home/milliarta# chmod 222 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# ls -l
total 48
-rxr-x-wx 1 root      root      0 Des 14 22:07 baru
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Desktop
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Documents
drwxr-xr-x 2 milliarta milliarta 4096 Nov 27 17:13 Downloads
-rw-r--r-- 1 milliarta milliarta 8980 Sep 18 18:35 examples.desktop
--w--w--w 1 root      root      0 Des 14 22:58 latihan
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Music
drwxr-xr-x 2 milliarta milliarta 4096 Des 14 22:48 Pictures
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Public
drwxr-xr-x 5 milliarta milliarta 4096 Nov 12 22:44 snap
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Templates
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Videos
root@milliarta-Lenovo-G40-80:/home/milliarta# chmod 333 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# ls -l
total 48
```

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L200170029/B



root@milliarta-Lenovo-G40-80: /home/milliarta

```
-rw-r--r-- 1 milliarta milliarta 8980 Sep 18 18:35 examples.desktop
--w--w--w- 1 root      root      0 Des 14 22:58 latihan
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Music
drwxr-xr-x 2 milliarta milliarta 4096 Des 14 22:48 Pictures
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Public
drwxr-xr-x 5 milliarta milliarta 4096 Nov 12 22:44 snap
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Templates
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Videos
root@milliarta-Lenovo-G40-80:/home/milliarta# chmod 333 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# ls -l
total 48
-rwxr-x-wx 1 root      root      0 Des 14 22:07 baru
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Desktop
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Documents
drwxr-xr-x 2 milliarta milliarta 4096 Nov 27 17:13 Downloads
-rw-r--r-- 1 milliarta milliarta 8980 Sep 18 18:35 examples.desktop
--wx-wx-wx 1 root      root      0 Des 14 22:58 latihan
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Music
drwxr-xr-x 2 milliarta milliarta 4096 Des 14 22:48 Pictures
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Public
drwxr-xr-x 5 milliarta milliarta 4096 Nov 12 22:44 snap
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Templates
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Videos
root@milliarta-Lenovo-G40-80:/home/milliarta#
```



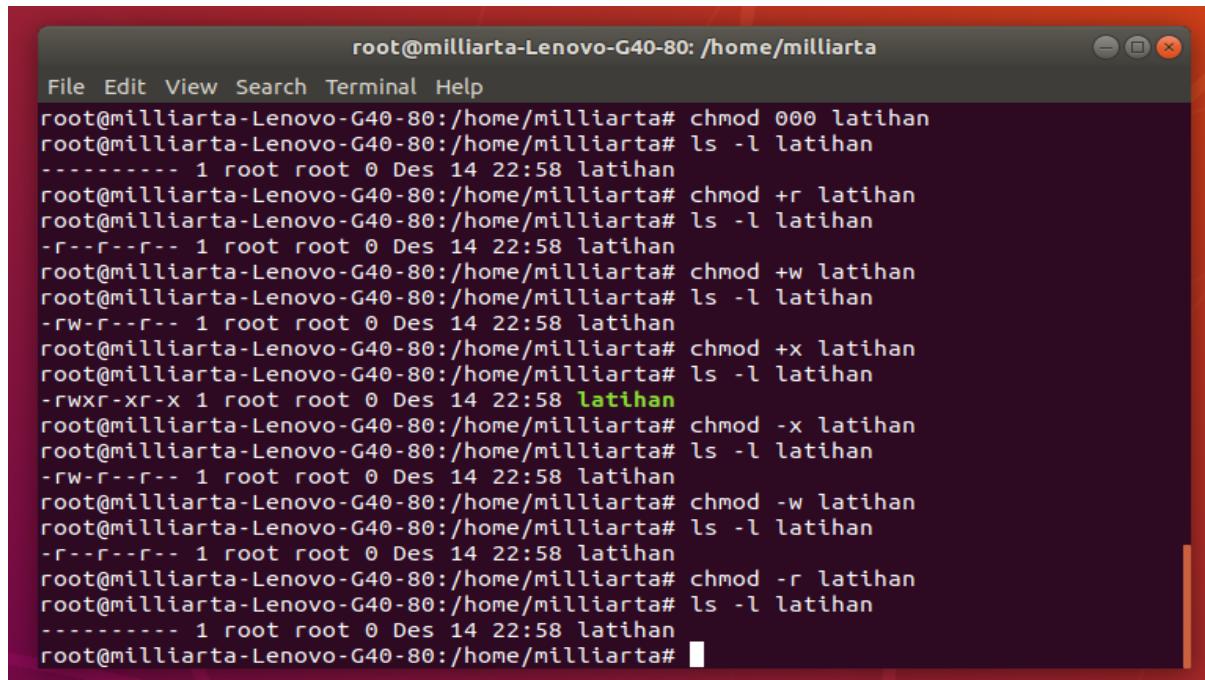
Jum 23:07 •

root@milliarta-Lenovo-G40-80: /home/milliarta

```
File Edit View Search Terminal Help
drwxr-xr-x 2 milliarta milliarta 4096 Nov 27 17:13 Downloads
-rw-r--r-- 1 milliarta milliarta 8980 Sep 18 18:35 examples.desktop
--wx-wx-wx 1 root      root      0 Des 14 22:58 latihan
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Music
drwxr-xr-x 2 milliarta milliarta 4096 Des 14 22:48 Pictures
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Public
drwxr-xr-x 5 milliarta milliarta 4096 Nov 12 22:44 snap
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Templates
drwxr-xr-x 2 milliarta milliarta 4096 Sep 19 02:25 Videos
```

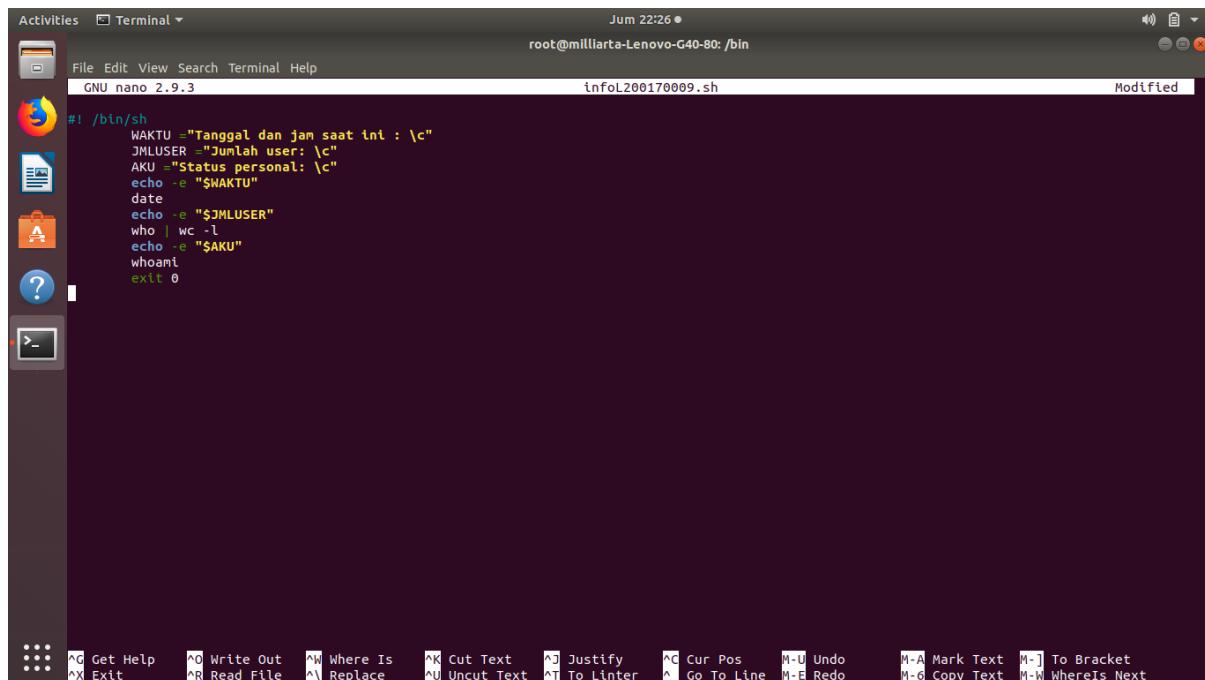
- Latihan 3

Hak akses dapat ditambahkan, selain di ubah seperti cara di atas. Untuk melakukan perubahan hak akses, kita menggunakan operand +x, +r, +w, -r-w dan -x.



```
root@milliarta-Lenovo-G40-80:/home/milliarta
File Edit View Search Terminal Help
root@milliarta-Lenovo-G40-80:/home/milliarta# chmod 000 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# ls -l latihan
-----
1 root root 0 Des 14 22:58 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# chmod +r latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# ls -l latihan
-r--r--r-- 1 root root 0 Des 14 22:58 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# chmod +w latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# ls -l latihan
-rw-r--r-- 1 root root 0 Des 14 22:58 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# chmod +x latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# ls -l latihan
-rwxr-xr-x 1 root root 0 Des 14 22:58 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# chmod -x latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# ls -l latihan
-rw-r--r-- 1 root root 0 Des 14 22:58 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# chmod -w latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# ls -l latihan
-r--r--r-- 1 root root 0 Des 14 22:58 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# chmod -r latihan
root@milliarta-Lenovo-G40-80:/home/milliarta# ls -l latihan
-----
1 root root 0 Des 14 22:58 latihan
root@milliarta-Lenovo-G40-80:/home/milliarta#
```

- Praktikum 4

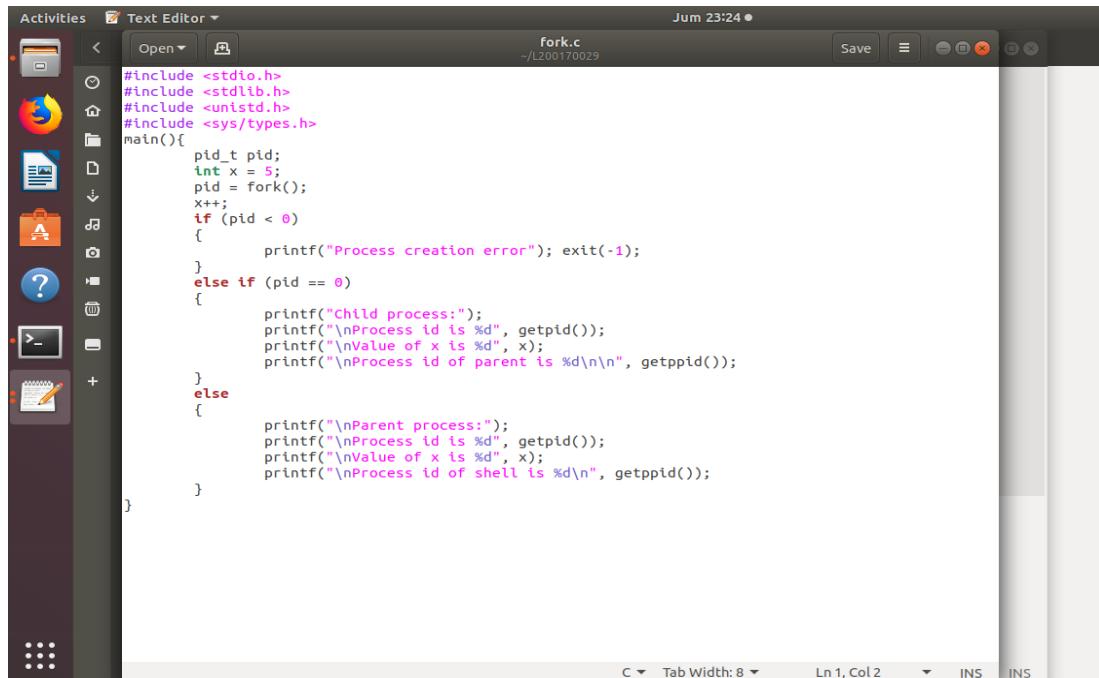


```
Activities Terminal ▾ Jum 22:26 ▾
File Edit View Search Terminal Help
GNU nano 2.9.3 infoL200170029.sh Modified
#! /bin/sh
WAKTU ="Tanggal dan jam saat ini : \c"
JMLUSER ="Jumlah user: \c"
AKU ="Status personal: \c"
echo -e "$WAKTU"
date
echo -e "$JMLUSER"
who | wc -l
echo -e "$AKU"
whoami
exit 0
```

MODUL 8

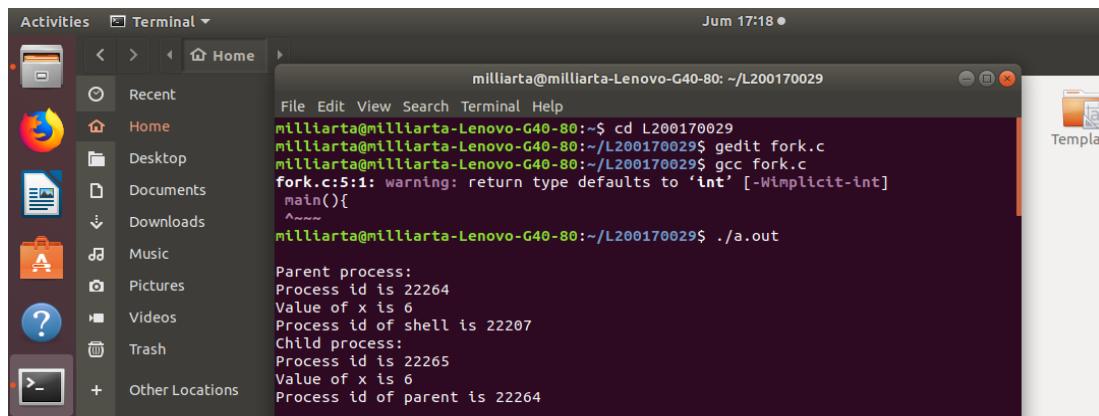
System Call

- Kode program fork.c



The screenshot shows a Gedit text editor window with the file 'fork.c' open. The code implements a simple process fork. It includes headers for stdio.h, stdlib.h, unistd.h, and sys/types.h. The main function creates a child process using fork(). If the return value is less than 0, it prints an error message and exits. If the value is 0, it indicates the child process, prints its process ID, the current value of x (which is 5), and the process ID of its parent. Otherwise, it indicates the parent process, prints its process ID, the current value of x (which is 6), and the process ID of the shell.

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <sys/types.h>
main(){
    pid_t pid;
    int x = 5;
    pid = fork();
    x++;
    if (pid < 0)
    {
        printf("Process creation error"); exit(-1);
    }
    else if (pid == 0)
    {
        printf("\nProcess id is %d", getpid());
        printf("\nValue of x is %d", x);
        printf("\nProcess id of parent is %d\n\n", getppid());
    }
    else
    {
        printf("\nParent process:");
        printf("\nProcess id is %d", getpid());
        printf("\nValue of x is %d", x);
        printf("\nProcess id of shell is %d\n", getppid());
    }
}
```

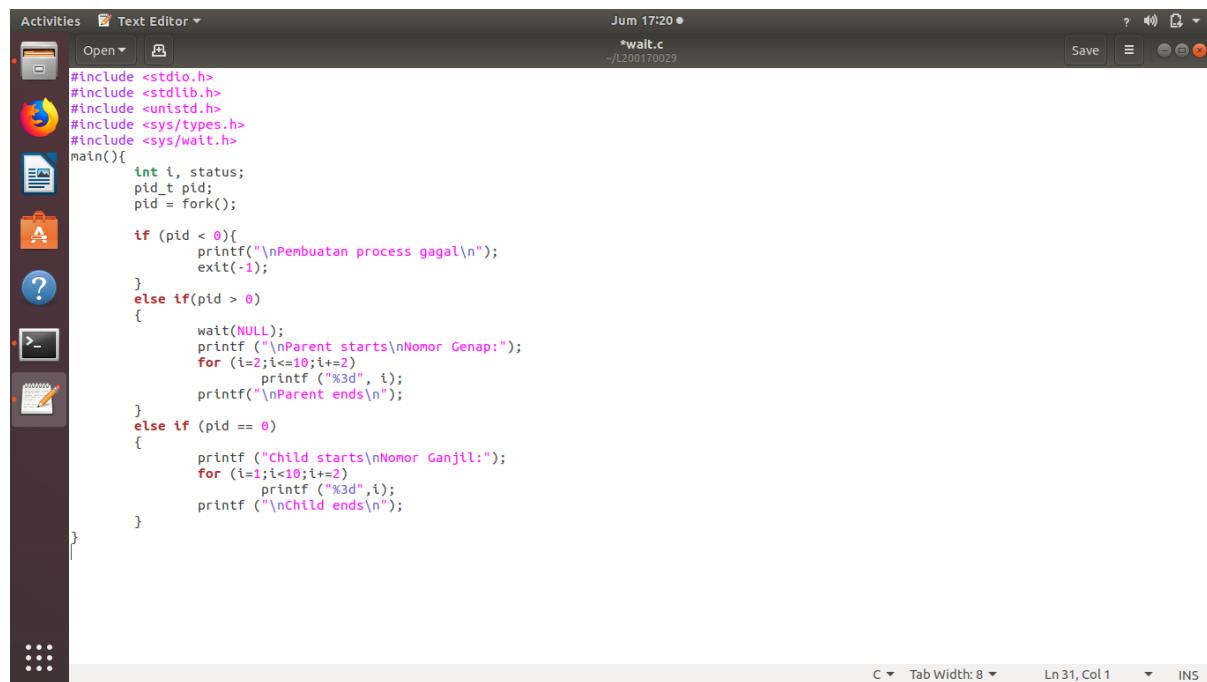


The screenshot shows a terminal window with the command line interface. It starts by navigating to the directory L200170029. Then, it runs the command 'gedit fork.c' to open the source code. After saving changes, it compiles the program with 'gcc fork.c'. Finally, it executes the compiled binary with './a.out'. The output shows the expected behavior: the parent process (ID 22264) has a child process (ID 22265) with a value of x equal to 6, and the parent's process ID is 22264.

```
milliarta@milliarta-Lenovo-G40-80:~/L200170029
File Edit View Search Terminal Help
milliarta@milliarta-Lenovo-G40-80:~$ cd L200170029
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gedit fork.c
fork.c:5:1: warning: return type defaults to 'int' [-Wimplicit-int]
 main(){}
 ^~~~
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ./a.out

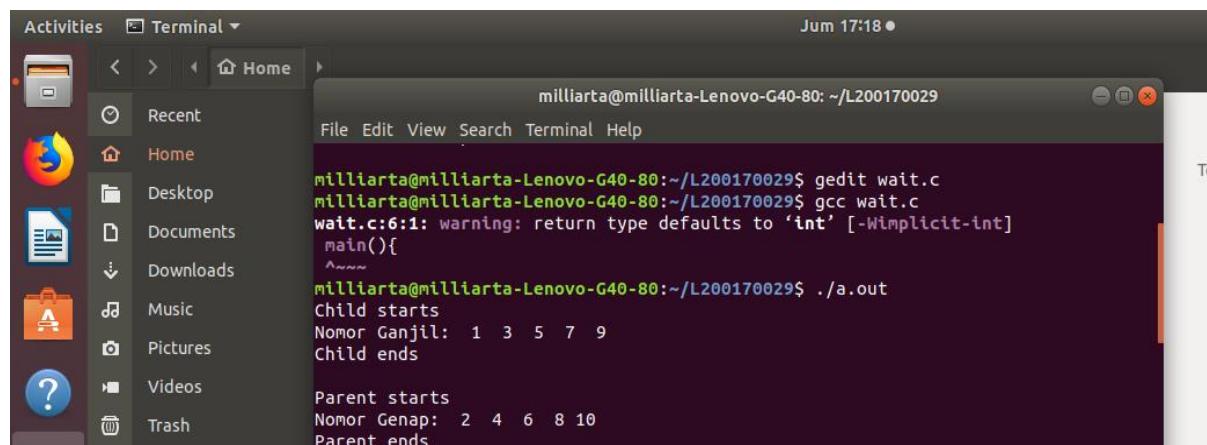
Parent process:
Process id is 22264
Value of x is 6
Process id of shell is 22207
Child process:
Process id is 22265
Value of x is 6
Process id of parent is 22264
```

- Kode Progam wait.c



```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <sys/types.h>
#include <sys/wait.h>
main(){
    int i, status;
    pid_t pid;
    pid = fork();

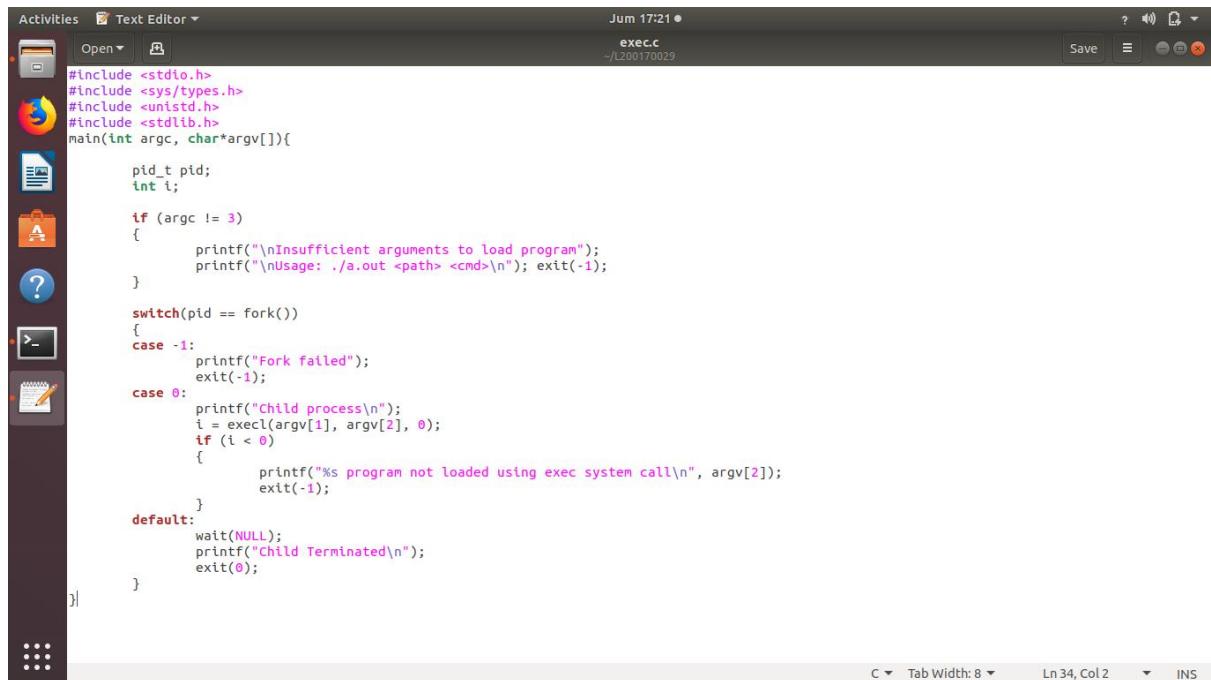
    if (pid < 0){
        printf("\nPembuatan process gagal\n");
        exit(-1);
    }
    else if(pid > 0)
    {
        wait(NULL);
        printf ("\nParent starts\nNomor Genap:");
        for (i=2;i<=10;i+=2)
            printf (" %d", i);
        printf("\nParent ends\n");
    }
    else if (pid == 0)
    {
        printf ("Child starts\nNomor Ganjil:");
        for (i=1;i<10;i+=2)
            printf (" %d", i);
        printf ("\nChild ends\n");
    }
}
```



```
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gedit wait.c
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gcc wait.c
wait.c:6:1: warning: return type defaults to 'int' [-Wimplicit-int]
 main(){
 ^~~~
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ./a.out
Child starts
Nomor Ganjil:  1  3  5  7  9
Child ends
Parent starts
Nomor Genap:  2  4  6  8 10
Parent ends
```

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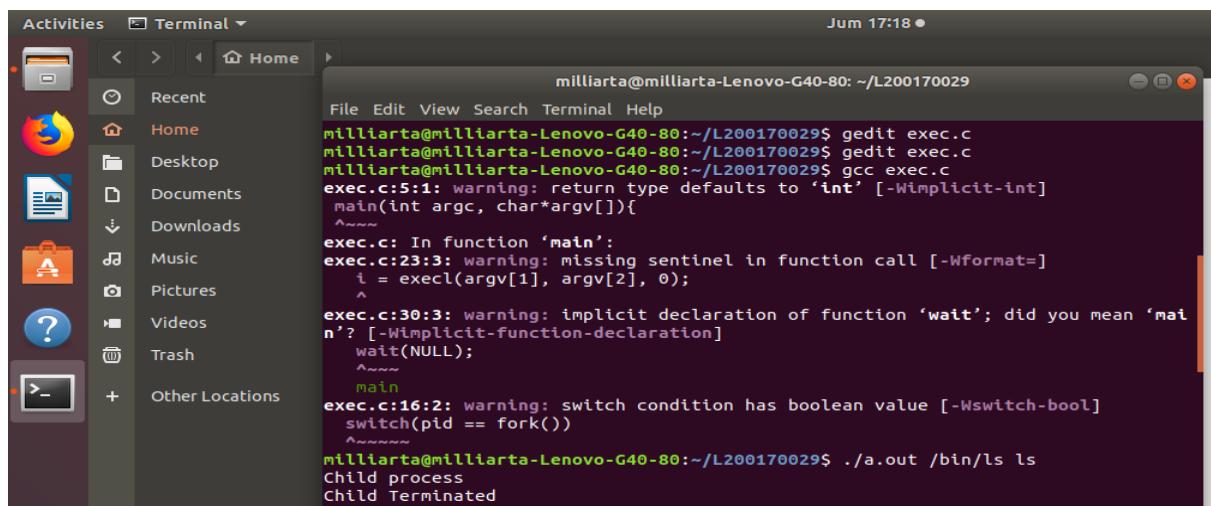
Kode Program exec.c



```
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
#include <stdlib.h>
main(int argc, char*argv[]){
    pid_t pid;
    int i;

    if (argc != 3)
    {
        printf("\nInsufficient arguments to load program");
        printf("\nUsage: ./a.out <path> <cmd>\n"); exit(-1);
    }

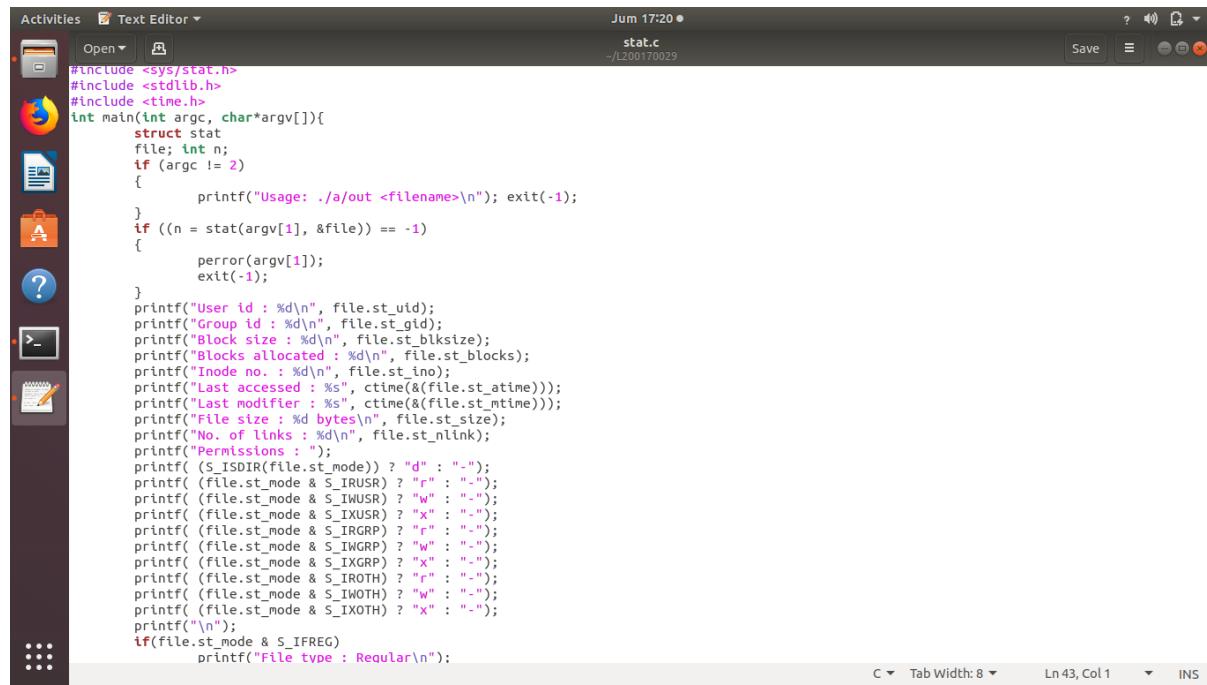
    switch(pid == fork())
    {
    case -1:
        printf("Fork failed");
        exit(-1);
    case 0:
        printf("Child process\n");
        i = execl(argv[1], argv[2], 0);
        if (i < 0)
        {
            printf("%s program not loaded using exec system call\n", argv[2]);
            exit(-1);
        }
    default:
        wait(NULL);
        printf("Child Terminated\n");
        exit(0);
    }
}
```



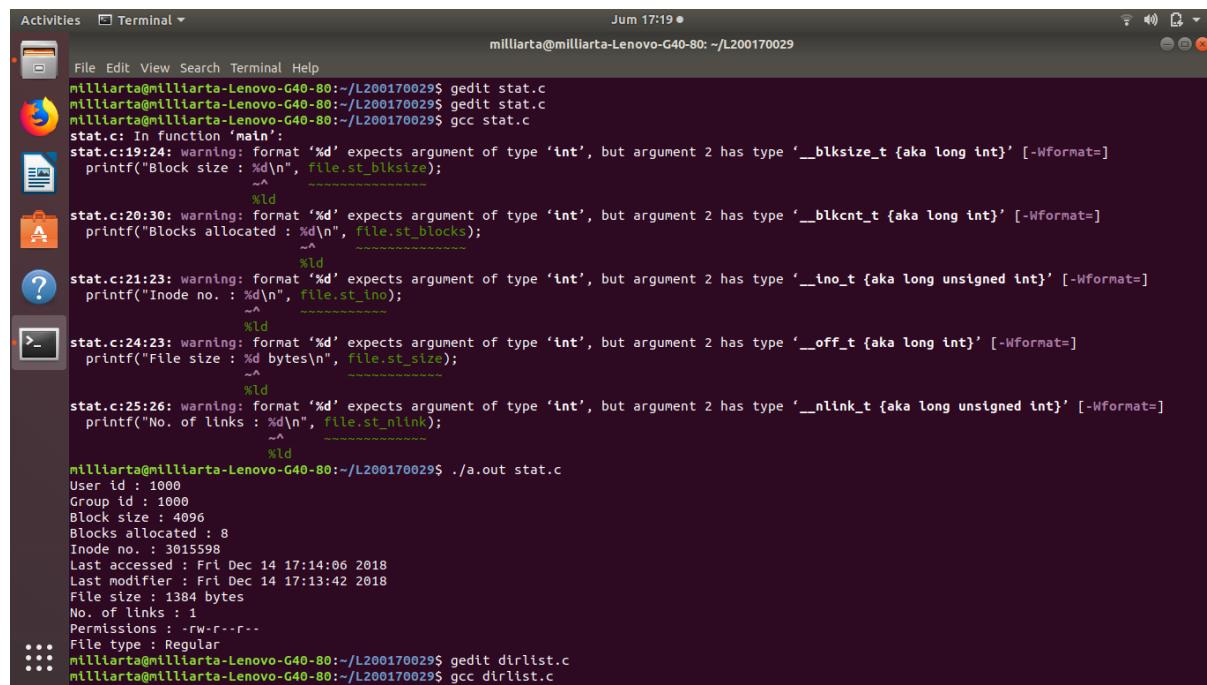
```
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gedit exec.c
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gcc exec.c
exec.c:5:1: warning: return type defaults to 'int' [-Wimplicit-int]
 main(int argc, char*argv[]){
 ^~~~~
exec.c: In function 'main':
exec.c:23:3: warning: missing sentinel in function call [-Wformat=]
     i = execl(argv[1], argv[2], 0);
          ^
exec.c:30:3: warning: implicit declaration of function 'wait'; did you mean 'mai
n'? [-Wimplicit-function-declaration]
     wait(NULL);
          ^
main
exec.c:16:2: warning: switch condition has boolean value [-Wswitch-bool]
     switch(pid == fork())
          ^
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ./a.out /bin/ls ls
Child process
Child Terminated
```

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- Kode Progam stat.c



```
#include <sys/stat.h>
#include <stdlib.h>
#include <time.h>
int main(int argc, char*argv[]){
    struct stat
        file; int n;
    if (argc != 2)
    {
        printf("Usage: ./a.out <filename>\n"); exit(-1);
    }
    if ((n = stat(argv[1], &file)) == -1)
    {
        perror(argv[1]);
        exit(-1);
    }
    printf("User id : %d\n", file.st_uid);
    printf("Group id : %d\n", file.st_gid);
    printf("Block size : %d\n", file.st_blksize);
    printf("Blocks allocated : %d\n", file.st_blocks);
    printf("Inode no. : %d\n", file.st_ino);
    printf("Last accessed : %s", ctime(&(file.st_atime)));
    printf("Last modifier : %s", ctime(&(file.st_mtime)));
    printf("File size : %d bytes\n", file.st_size);
    printf("No. of links : %d\n", file.st_nlink);
    printf("Permissions : ");
    printf( (S_ISDIR(file.st_mode) ? "d" : "-");
    printf( (file.st_mode & S_IRUSR) ? "r" : "-");
    printf( (file.st_mode & S_IWUSR) ? "w" : "-");
    printf( (file.st_mode & S_IXUSR) ? "x" : "-");
    printf( (file.st_mode & S_IRGRP) ? "r" : "-");
    printf( (file.st_mode & S_IWGRP) ? "w" : "-");
    printf( (file.st_mode & S_IXGRP) ? "x" : "-");
    printf( (file.st_mode & S_IROTH) ? "r" : "-");
    printf( (file.st_mode & S_IWOTH) ? "w" : "-");
    printf( (file.st_mode & S_IXOTH) ? "x" : "-");
    printf("\n");
    if(file.st_mode & S_IFREG)
        printf("File type : Regular\n");
}
```

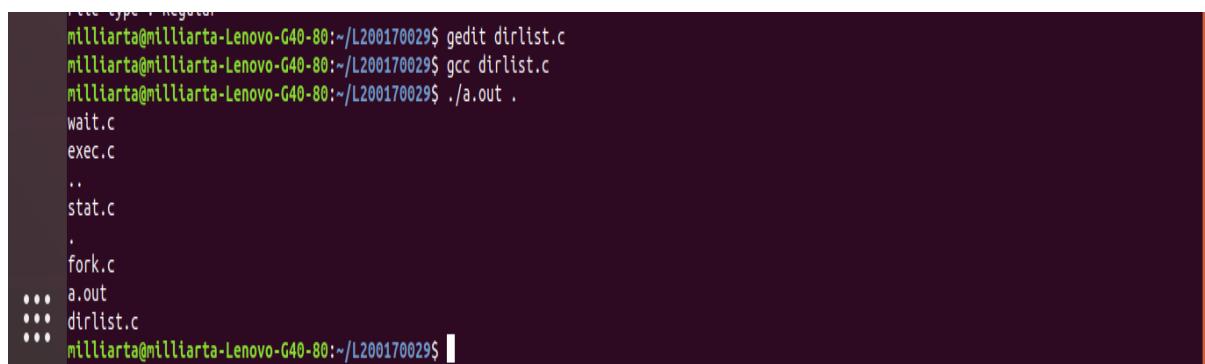


```
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gedit stat.c
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gcc stat.c
stat.c: In function 'main':
stat.c:19:24: warning: format '%d' expects argument of type 'int', but argument 2 has type ' __blksize_t {aka long int}' [-Wformat=]
    printf("Block size : %d\n", file.st_blksize);
               ^
               %ld
stat.c:20:30: warning: format '%d' expects argument of type 'int', but argument 2 has type ' __blkcnt_t {aka long int}' [-Wformat=]
    printf("Blocks allocated : %d\n", file.st_blocks);
               ^
               %ld
stat.c:21:23: warning: format '%d' expects argument of type 'int', but argument 2 has type ' __ino_t {aka long unsigned int}' [-Wformat=]
    printf("Inode no. : %d\n", file.st_ino);
               ^
               %ld
stat.c:24:23: warning: format '%d' expects argument of type 'int', but argument 2 has type ' __off_t {aka long int}' [-Wformat=]
    printf("File size : %d bytes\n", file.st_size);
               ^
               %ld
stat.c:25:26: warning: format '%d' expects argument of type 'int', but argument 2 has type ' __nlink_t {aka long unsigned int}' [-Wformat=]
    printf("No. of links : %d\n", file.st_nlink);
               ^
               %ld
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ./a.out stat.c
User id : 1000
Group id : 1000
Block size : 4096
Blocks allocated : 8
Inode no. : 3015598
Last accessed : Fri Dec 14 17:14:06 2018
Last modifier : Fri Dec 14 17:13:42 2018
File size : 1384 bytes
No. of links : 1
Permissions : -rw-r--r--
File type : Regular
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gedit dirlist.c
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gcc dirlist.c
```

- Kode Progam dirlist.c



```
#include <stdio.h>
#include <dirent.h>
#include <stdlib.h>
int main(int argc, char *argv[]){
    struct dirent *dptr;
    DIR *dname;
    if (argc != 2)
    {
        printf("Usage : ./a.out <dirname>\n");
        exit(-1);
    }
    if ((dname= opendir(argv[1])) == NULL)
    {
        perror (argv[1]);
        exit(-1);
    }
    while (dptr=readdir(dname))
        printf("%s\n", dptr->d_name);
    closedir(dname);
}
```

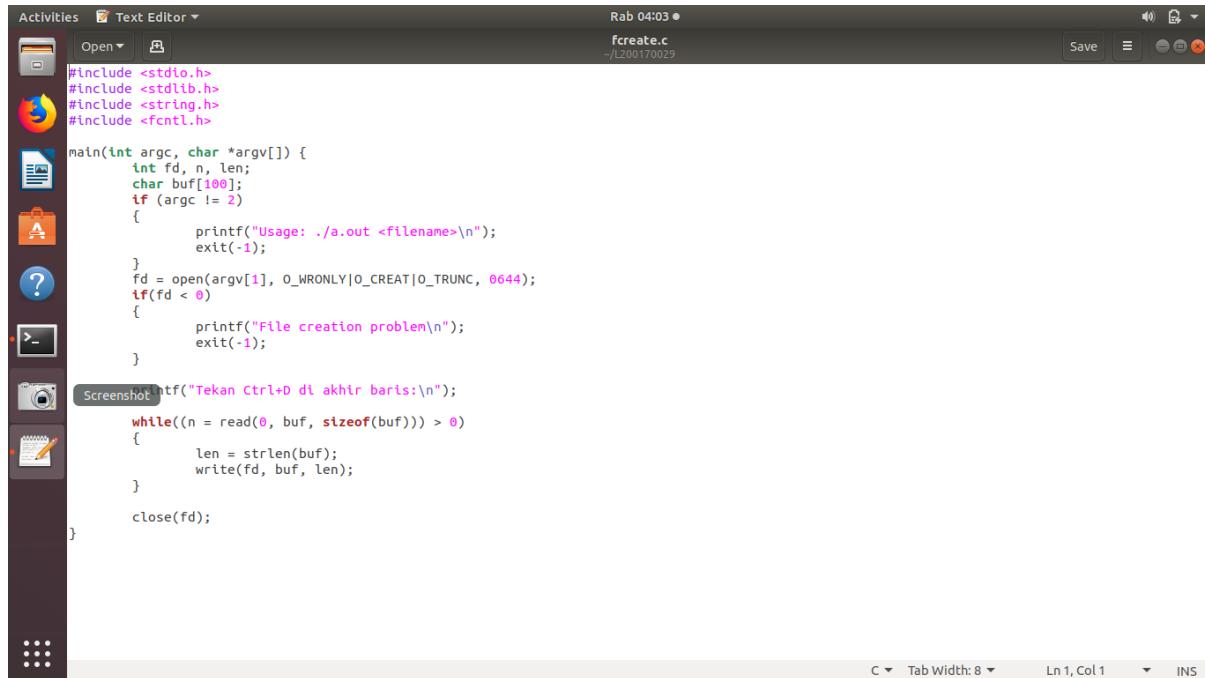


```
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gedit dirlist.c
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gcc dirlist.c
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ./a.out .
wait.c
exec.c
..
stat.c
.
fork.c
...
a.out
...
dirlist.c
...
milliarta@milliarta-Lenovo-G40-80:~/L200170029$
```

MODUL 9

File System Call

- Kode Progam fcreate.c



```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <fcntl.h>

main(int argc, char *argv[])
{
    int fd, n, len;
    char buf[100];
    if (argc != 2)
    {
        printf("Usage: ./a.out <filename>\n");
        exit(-1);
    }
    fd = open(argv[1], O_WRONLY|O_CREAT|O_TRUNC, 0644);
    if(fd < 0)
    {
        printf("File creation problem\n");
        exit(-1);
    }

    Screenshot:printf("Tekan Ctrl+D di akhir baris:\n");
    while((n = read(0, buf, sizeof(buf))) > 0)
    {
        len = strlen(buf);
        write(fd, buf, len);
    }
    close(fd);
}
```

- Kode Progam fread.c



```
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
main(int argc, char *argv[])
{
    int fd,i;
    char buf[100];
    if (argc < 2)
    {
        printf("Usage: ./a.out <filename>\n");
        exit(-1);
    }
    fd = open(argv[1], O_RDONLY);
    if(fd == -1)
    {
        printf("%s file dose not exists\n", argv[1]);
        exit(-1);
    }

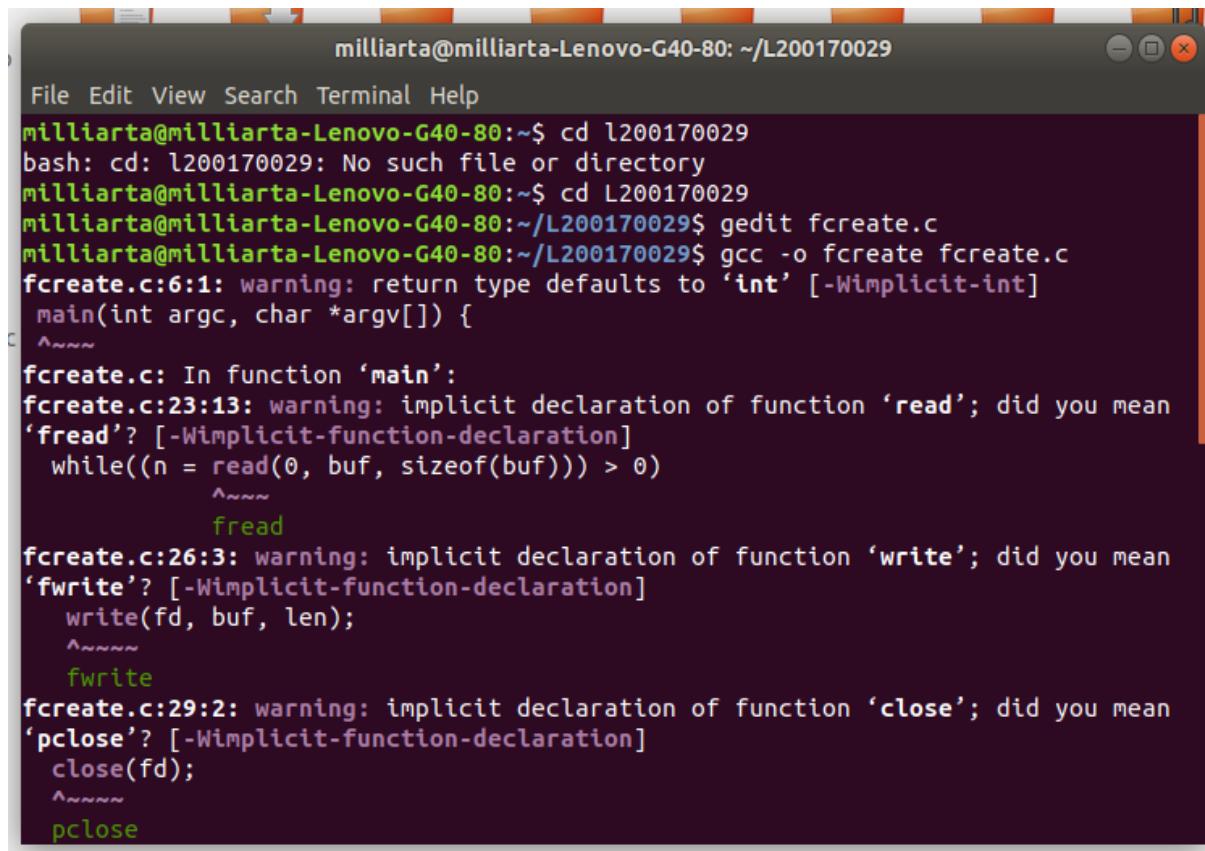
    printf("Isi dari file %s adalah : \n", argv[1]);
    while(read(fd, buf, sizeof(buf)) > 0)
        printf("%s", buf);
    close(fd);
}
```

- Kode Progam fappend.c



```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <fcntl.h>
main(int argc, char *argv[])
{
    int fd, n, len;
    char buf[100];
    if (argc != 2)
    {
        printf("Usage: ./a.out <filename>\n");
        exit(-1);
    }
    fd = open(argv[1], O_APPEND|O_WRONLY|O_CREAT, 0644);
    if (fd < 0)
    {
        perror(argv[1]);
        exit(-1);
    }
    while((n = read(0, buf, sizeof(buf))) > 0)
    {
        len = strlen(buf);
        write(fd, buf, len);
    }
    close(fd);
}
```

- Menjalankan Kode



```
milliarta@milliarta-Lenovo-G40-80:~/L200170029
File Edit View Search Terminal Help
milliarta@milliarta-Lenovo-G40-80:~$ cd l200170029
bash: cd: l200170029: No such file or directory
milliarta@milliarta-Lenovo-G40-80:~$ cd L200170029
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gedit fcreate.c
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gcc -o fcreate fcreate.c
fcreate.c:6:1: warning: return type defaults to 'int' [-Wimplicit-int]
 main(int argc, char *argv[])
 ^~~~~
fcreate.c: In function 'main':
fcreate.c:23:13: warning: implicit declaration of function 'read'; did you mean
 'fread'? [-Wimplicit-function-declaration]
     while((n = read(0, buf, sizeof(buf))) > 0)
           ^
           fread
fcreate.c:26:3: warning: implicit declaration of function 'write'; did you mean
 'fwrite'? [-Wimplicit-function-declaration]
     write(fd, buf, len);
           ^
           fwrite
fcreate.c:29:2: warning: implicit declaration of function 'close'; did you mean
 'pclose'? [-Wimplicit-function-declaration]
     close(fd);
           ^
           pclose
```

```
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ./fcreate.txt
bash: ./fcreate.txt: No such file or directory
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ .fcreate test.txt
.fcreate: command not found
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ./fcreate test.txt
Tekan Ctrl+D di akhir baris:
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ^C
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ./fread test.txt
bash: ./fread: No such file or directory
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gcc -o fread fread.c
fread.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]
 main(int argc, char *argv[]) {
 ^
fread.c: In function 'main':
fread.c:20:8: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
    while(read(fd, buf, sizeof(buf)) > 0)
    ^
    fread
fread.c:23:2: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
    close(fd);
    ^
    pclose
```

```
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ File Edit View Search Terminal Help
Tekan Ctrl+D di akhir baris:
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ^C
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ./fread test.txt
bash: ./fread: No such file or directory
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gcc -o fread fread.c
fread.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]
 main(int argc, char *argv[]) {
 ^
fread.c: In function 'main':
fread.c:20:8: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
    while(read(fd, buf, sizeof(buf)) > 0)
    ^
    fread
fread.c:23:2: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
    close(fd);
    ^
    pclose
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ./fread test.txt
Isi dari file test.txt adalah :
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ Riris Agriela Savitri
Riris: command not found
milliarta@milliarta-Lenovo-G40-80:~/L200170029$
```

MODUL 10

Simulasi Command (Perintah)

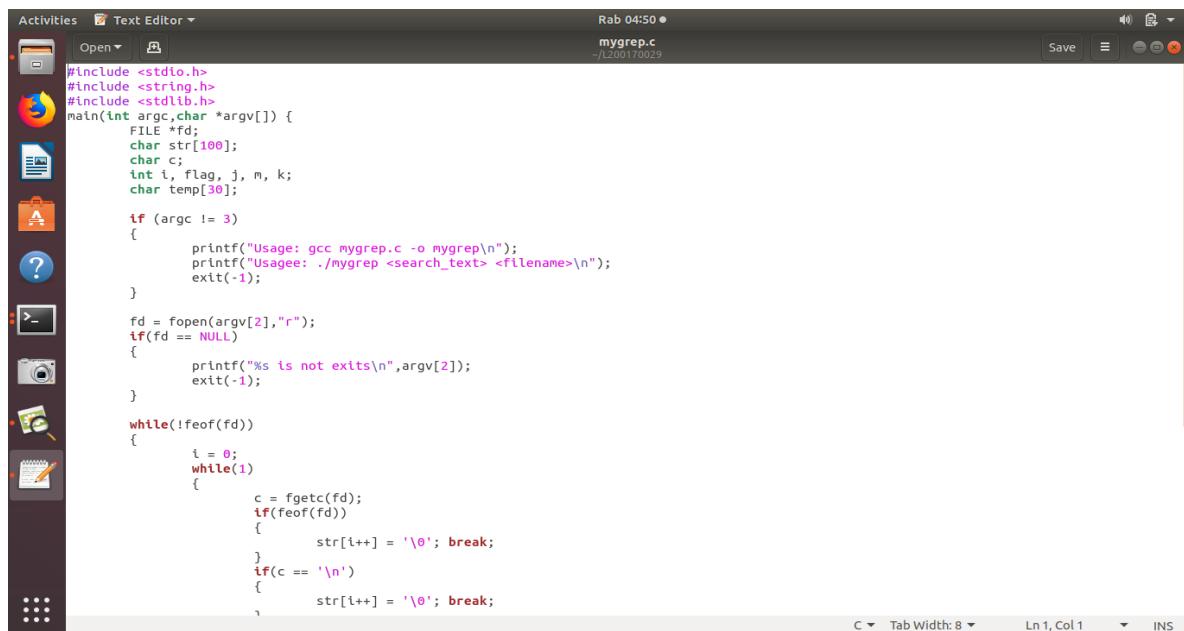
- Kode Program List.c



```
#include <stdio.h>
#include <dirent.h>
main() {
    struct dirent
        **namelist; int n,i;
    char pathname[100];
    getcwd(pathname);

    n = scandir(pathname, &namelist, 0, alphasort);
    if(n < 0)
        printf("Error\n");
    else
        for(i=0; i<n; i++)
            if(namelist[i]->d_name[0] != '.')
                printf("%-20s", namelist[i]->d_name);
}
```

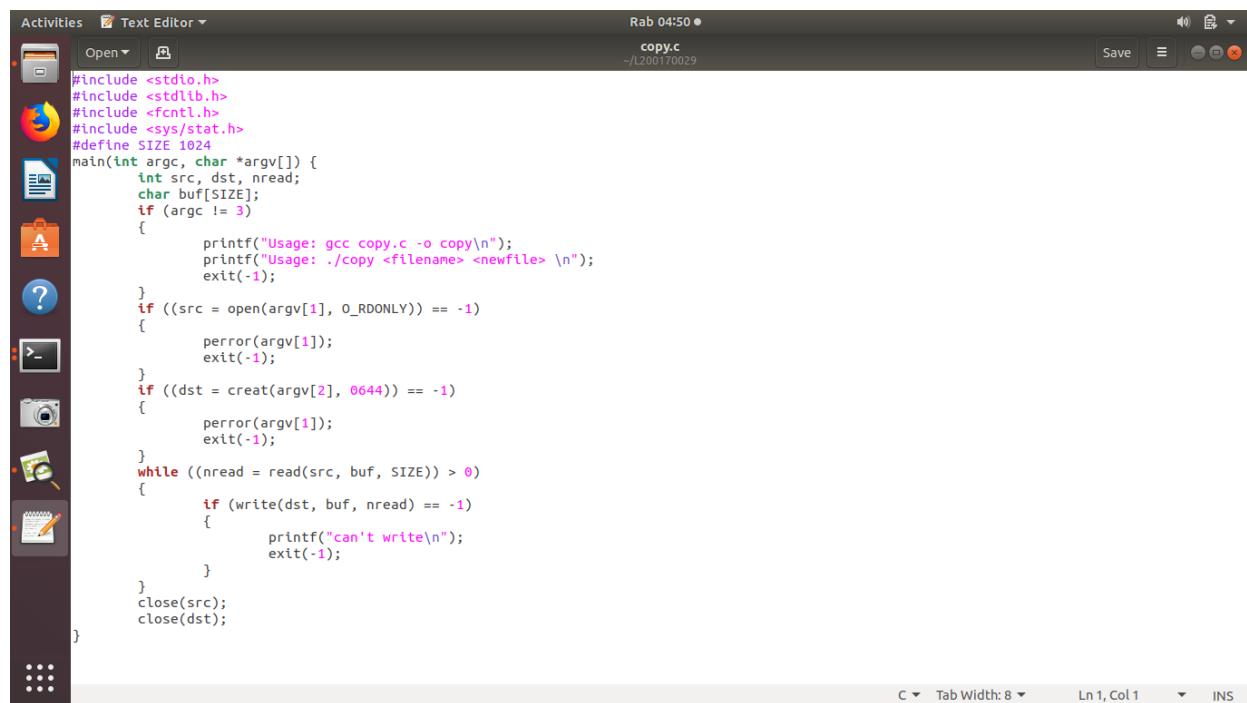
- Kode Program mygrep.c



```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
main(int argc,char *argv[])
{
    FILE *fd;
    char str[100];
    char c;
    int l, flag, j, m, k;
    char temp[30];

    if (argc != 3)
    {
        printf("Usage: gcc mygrep.c -o mygrep\n");
        printf("Usage: ./mygrep <search_text> <filename>\n");
        exit(-1);
    }
    fd = fopen(argv[2],"r");
    if(fd == NULL)
    {
        printf("%s is not exists\n",argv[2]);
        exit(-1);
    }
    while(!feof(fd))
    {
        l = 0;
        while(1)
        {
            c = fgetc(fd);
            if(feof(fd))
            {
                str[l++] = '\0'; break;
            }
            if(c == '\n')
            {
                str[l++] = '\0'; break;
            }
        }
    }
}
```

- Kode Program copy.c



```
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <sys/stat.h>
#define SIZE 1024
main(int argc, char *argv[])
{
    int src, dst, nread;
    char buf[SIZE];
    if (argc != 3)
    {
        printf("Usage: gcc copy.c -o copy\n");
        printf("Usage: ./copy <filename> <newfile> \n");
        exit(-1);
    }
    if ((src = open(argv[1], O_RDONLY)) == -1)
    {
        perror(argv[1]);
        exit(-1);
    }
    if ((dst = creat(argv[2], 0644)) == -1)
    {
        perror(argv[1]);
        exit(-1);
    }
    while ((nread = read(src, buf, SIZE)) > 0)
    {
        if (write(dst, buf, nread) == -1)
        {
            printf("can't write\n");
            exit(-1);
        }
    }
    close(src);
    close(dst);
}
```

- Kode Program del.c

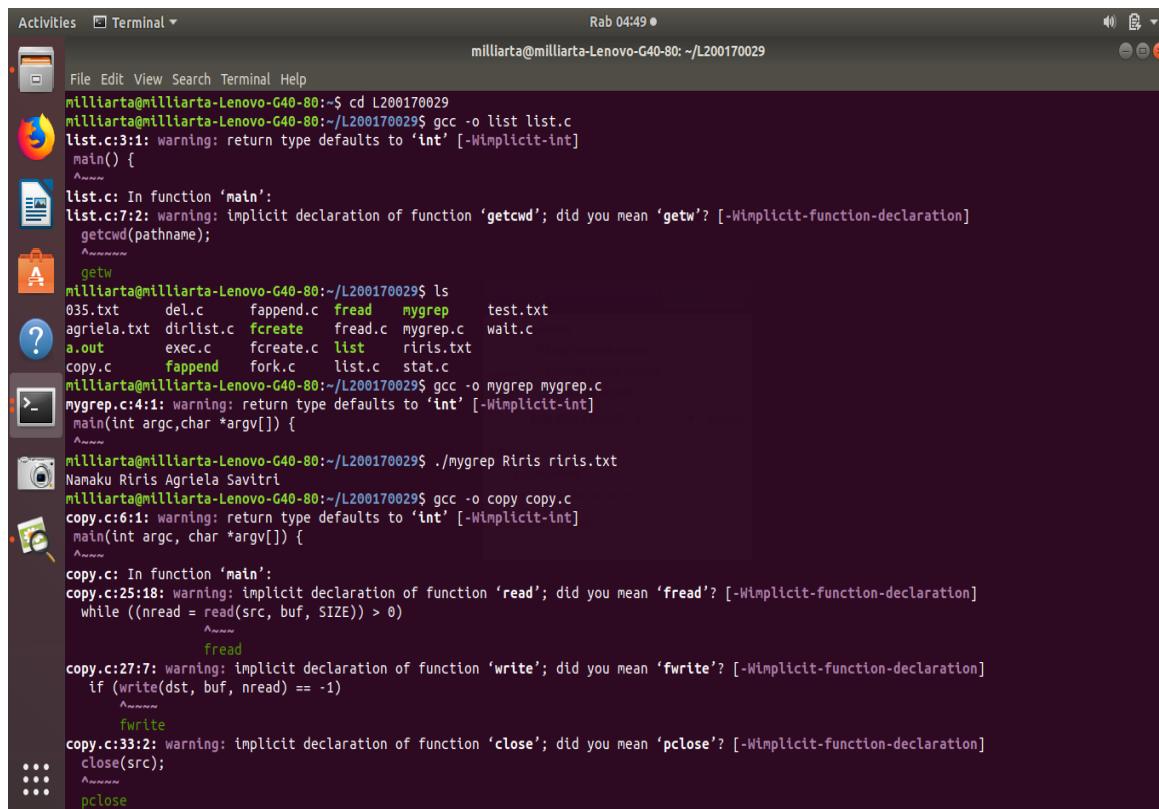


```
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
int main(int argc, char* argv[])
{
    int fd;
    if (argc != 2)
    {
        printf("Usage: gcc del.c -o del\n");
        printf("Usage: ./del <filename>\n");
        exit(-1);
    }
    fd = open (argv[1], O_RDONLY);
    if(fd != -1)
    {
        close(fd);
        unlink(argv[1]);
    } else
        perror(argv[1]);
}
```

Riris Agriela Savitri

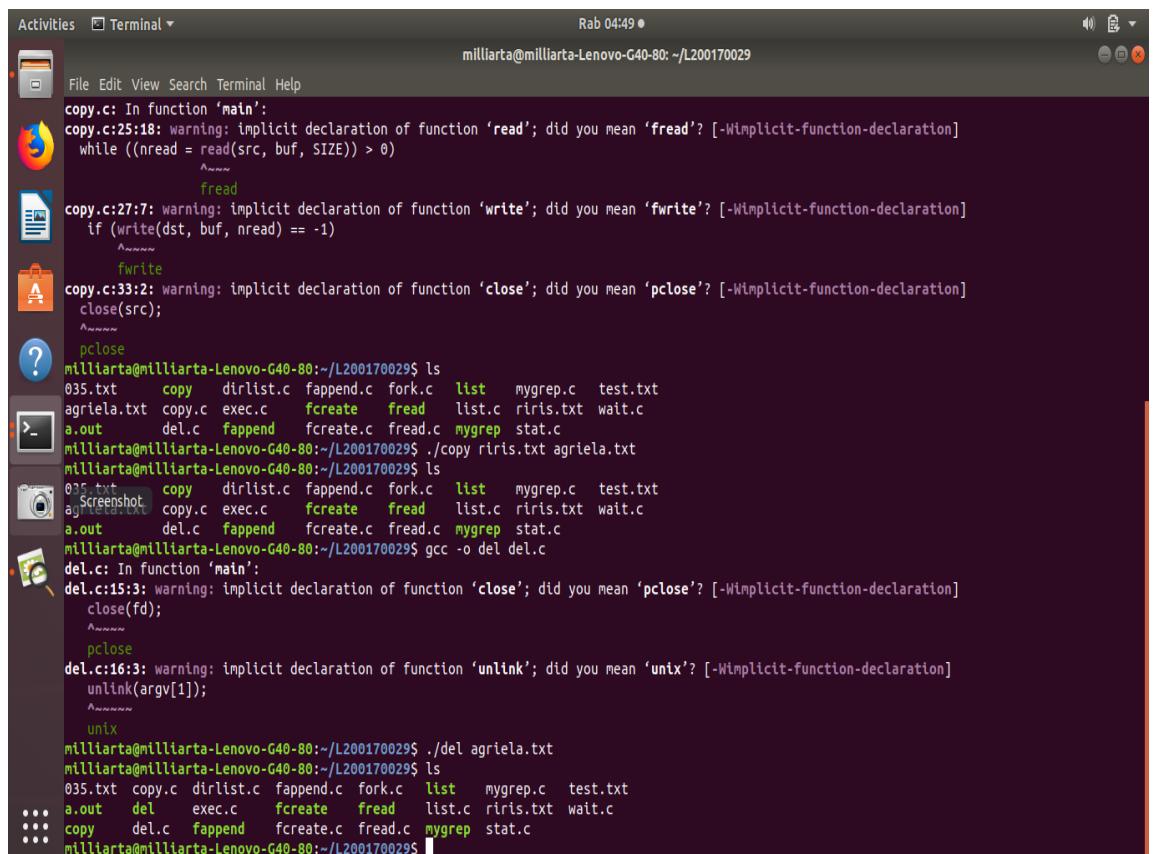
L200170029/B

- Menjalankan Perintah



A screenshot of a Linux desktop environment showing a terminal window titled "Terminal". The terminal window has a dark background and displays the following command-line session:

```
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ cd L200170029
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gcc -o list list.c
list.c:3:1: warning: return type defaults to 'int' [-Wimplicit-int]
main() {
^~~~
list.c: In function 'main':
list.c:7:2: warning: implicit declaration of function 'getcwd'; did you mean 'getw'? [-Wimplicit-function-declaration]
    getcwd(pathname);
^~~~~~
    getw
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ls
035.txt    del.c    fappend.c   fread    mygrep    test.txt
agriela.txt dirlist.c  fcreate   fread.c  list     riris.txt
a.out      exec.c   fcreate.c  fread.c  mygrep.c stat.c
copy.c     fappend  fork.c    fread.c  list.c   riris.txt
copy.c     fappend  fork.c    fread.c  list.c   stat.c
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gcc -o mygrep mygrep.c
mygrep.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]
main(int argc,char *argv[]) {
^~~~
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ./mygrep Riris riris.txt
Namaku Riris Agriela Savitri
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ gcc -o copy copy.c
copy.c:6:1: warning: return type defaults to 'int' [-Wimplicit-int]
main(int argc, char *argv[]) {
^~~~
copy.c: In function 'main':
copy.c:25:18: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
    while ((nread = read(src, buf, SIZE)) > 0)
        ^
        fread
copy.c:27:7: warning: implicit declaration of function 'write'; did you mean 'fwrite'? [-Wimplicit-function-declaration]
    if (write(dst, buf, nread) == -1)
        ^
        fwrite
copy.c:33:2: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
    close(src);
^~~~~~
    pclose
```



A screenshot of a Linux desktop environment showing a terminal window titled "Terminal". The terminal window has a dark background and displays the following command-line session:

```
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ls
035.txt    copy    dirlist.c  fappend.c  fork.c    list    mygrep.c  test.txt
agriela.txt copy.c   exec.c   fcreate   fread    list.c  riris.txt  wait.c
a.out      del.c    fappend  fcreate.c  fread.c  mygrep  stat.c
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ./copy riris.txt agriela.txt
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ls
035.txt    copy    dirlist.c  fappend.c  fork.c    list    mygrep.c  test.txt
agriela.txt copy.c   exec.c   fcreate   fread    list.c  riris.txt  wait.c
a.out      del.c    fappend  fcreate.c  fread.c  mygrep  stat.c
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ./del del.c
del.c: In function 'main':
del.c:15:3: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
    close(fd);
^~~~~~
    pclose
del.c:16:3: warning: implicit declaration of function 'unlink'; did you mean 'unlink'? [-Wimplicit-function-declaration]
    unlink(argv[1]);
^~~~~~
    unix
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ./del agriela.txt
milliarta@milliarta-Lenovo-G40-80:~/L200170029$ ls
035.txt    copy    dirlist.c  fappend.c  fork.c    list    mygrep.c  test.txt
a.out      del     exec.c   fcreate   fread    list.c  riris.txt  wait.c
copy     del.c    fappend  fcreate.c  fread.c  mygrep  stat.c
milliarta@milliarta-Lenovo-G40-80:~/L200170029$
```