# PRAKTIKUM SISTEM OPERASI (Operation System)

# LAPORAN TUGAS UJIAN AKHIR SEMESTER



Nama : Shafa Bani Saputra

NIM : L200190151

Kelas : E

PROGRAM STUDI INFORMATIKA

FAKULTAS KOMUNIKASI DAN INFORMATIKA

UNIVERSITAS MUHAMMADIYAH

SURAKARTA

#### No 1

```
customcare: /home/bns/Documents/UNIVERSITAS/... Q ...

(bns@customcare)-[~/.../UNIVERSITAS/Kuliah/prak_so/uas]

sudo su
[sudo] password for bns:

(root@customcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]

nano L200190151.sh
```

Buka terminal kemudian masuk ke dalam direktory dimana akan menyimpan file, atau bisa pada lokasi directory klik kanan open in terminal.

Kemudian disini saya menggunakan mode root dengan mengetikan "sudo su" kemudian tuliskan password.

Selanjutnya untuk membuat file saya menggunakan nano walaupun bisa juga dengan vi ataupun dengan text editor lainnya.

Ketikan "nano L200190151.sh"

Kemudian akan muncul GNU nano dan kemudian ketikan sourcode setelah selesai tekan "ctrl+x" untuk keluar kemudian tekan "y" dan tekan enter.

```
root@customcare: /home/bns/Documents/UNIVERSITAS/...
           а
 GNU nano 5.3
                                     L200190151.sh *
NameCom="Computer Name :
InfOS="OS saat ini : \c"
LastUsr="User Login terakhir : \c"
UsrName="User Name : \c"
ID="ID : \c"
echo "Assalamualaikum"
echo "$NameCom"
hostname
echo "$InfOS"
echo "$LastUsr"
who
echo "$UsrName"
whoami
echo "$ID"
id
exit 0
                Write Out MW Where Is
  Help
                                                        Execute
                                                                     Location
```

Kemudian ketikan "./L200190151.sh" maka akan muncul output

```
root@customcare: /home/bns/Documents/UNIVERSITAS/... Q ...

(root ©customcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]

# ./L200190151.sh

Assalamualaikum
Computer Name : customcare
0S saat ini : Linux
User Login terakhir : bns :0 2021-01-27 23:38 (:0)
User Name : root
ID : uid=0(root) gid=0(root) groups=0(root),145(kaboxer)

(root ©customcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
```

#### No 2

Membuat directory dan mengatur permissionnya

```
noot@customcare: /home/bns/Documents/UNIVERSITAS/...
     root & customcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
  mkdir L200190151
            ustomcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
   11
total 372
drwxr-xr-x 2 root root 4096 Jan 27 23:01 L200190151
-rwxr-xr-x 1 bns bns 210 Jan 27 21:57 L20019015#1.sh
-rwxr-xr-x 1 root root 260 Jan 27 22:32 L200190151.sh
-rw-r--r-- 1 bns bns 364853 Jan 27 22:34 uas.docx
  -(root@customcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
__ chmod 000 <u>L200190151</u>
  -(root &customcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
 111
total 372
d----- 2 root root 4096 Jan 27 23:01 L200190151
-rwxr-xr-x 1 bns bns 210 Jan 27 21:57 L20019015#1.sh
-rwxr-xr-x 1 root root 260 Jan 27 22:32 L200190151.sh
-rw-r--r-- 1 bns bns 364853 Jan 27 22:34 uas.docx
     root@customcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
```

# **Chmod 127**

# **Chmod** 777

```
root@customcare:/home/bns/Documents/UNIVERSITAS/... Q ...

(root @customcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
chmod 777 L200190151

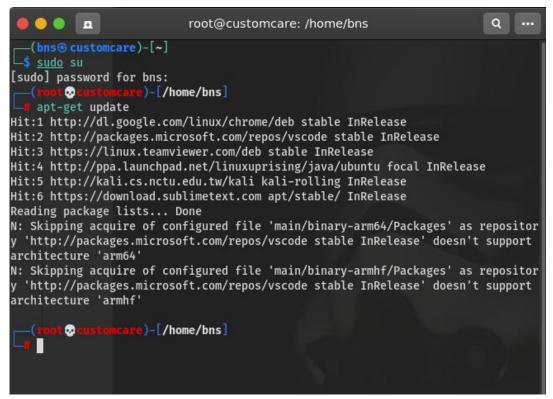
(root @customcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
tltotal 372
drwxrwxrwx 2 root root 4096 Jan 27 23:01 L200190151
-rwxr-xr-x 1 bns bns 210 Jan 27 21:57 L20019015#1.sh
-rwxr-xr-x 1 root root 260 Jan 27 22:32 L200190151.sh
-rw-r--r-- 1 bns bns 364853 Jan 27 22:34 uas.docx

(root @customcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
```

# Chmod 666

#### No 3

Buka terminal kemudian masuk ke root kemudian update package dahulu untuk mendapatkan directory terbaru dari directory linux



#### Kemudian ketikan "apt install vlc"

Pada konfirmasi penginstalan ketikan "y" untuk melanjutkan Tunggu hingga selesai, jika sudah ketikan exit untuk keluar pada mode root dan selanjutnya ketika "vlc" untuk menjalankannya

```
bns@customcare: ~ Q ...

(root @customcare)-[/home/bns]

** exit

(bns@customcare)-[~]

$ vlc

VLC media player 3.0.11.1 Vetinari (revision 3.0.11.1-0-g52483f3ca2)

[000055d00d4935b0] main libvlc: Running vlc with the default interface. Use 'cvlc' to use vlc without interface.

[000055d00d531940] main playlist: playlist is empty
```

Dan vlc pun siap digunakan

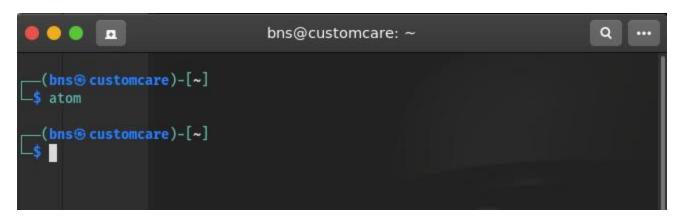


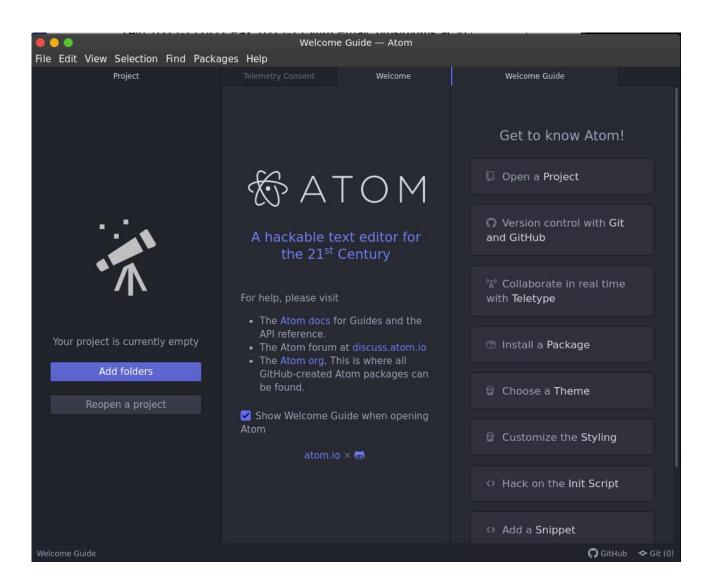
Selanjutnya menginstal text editor

Disini saya akan menginstall atom yang mana merupakan salah satu text editior dari beberapa text editor seperti sublime text3 ,Visual studio code dan yang lainnya Pertama download dulu file atom.deb bisa didownload dari web resminya "atom.io"

Selanjutnya menuju kedirectory tempat file atom.deb berada dan kemudian klik kanan open in terminal dan ketikan "dpkg -i atom-amd64.deb" disini atom-amd64.deb adalah nama file yang saya download tadi, kemudian tunggu hinggal proses intallasi selesai.

#### Kemudian keluar dari mode root dan ketikan atom





#### No 4 a

```
root@customcare: /home/bns/Documents/UNIVERSITAS/Kuliah/prak_so/uas
                                                                                                                                    Q ...
 GNU nano 5.3
                                                                   nomor4.c
#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], 0_WRONLY|0_GREAT|0_TRUNC, 0644);
 if(fd < 0)
         printf("File creation problem\n");
         exit(-1);
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);
                                                            Read 25 lines ]
                                        ^W Where Is
^\ Replace
                                                                                                    C Location
                                                                                                                       M-U Undo
   Help
                    ^O Write Out
                                                                                   Execute
```

Terdapat source code yang hilang yaitu variable "len" dan juga fungsi "close"

```
root@customcare: /home/bns/Documents/UNIVERSITAS/Kuliah/prak_so/uas
                                                                                                                     Q ...
                      )-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
         0
    nano nomor4.c
            ustomcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
   (<mark>rect⊙customcare</mark>)-[/home
gcc -o fcreate <u>nomor4.c</u>
nomor4.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]
    4 | main (int argc, char *argv[]){
nomor4.c:9:3: warning: incompatible implicit declaration of built-in function 'printf'
nomor4.c:4:1: note: include '<stdio.h>' or provide a declaration of 'printf'
# #include <fcntl.h>
# #include <fcntl.h>
## | ##include <stdio.h>
# | main (int argc, char *argv[]){
nomor4.c:15:2: warning: incompatible implicit declaration of built-in function 'printf'
| printf("File creation problem\n");
nomor4.c:15:2: note: include '<stdio.h>' or provide a declaration of 'printf'
nomor4.c:18:1: warning: incompatible implicit declaration of built-in function 'printf'
   18 | printf("Tekan Ctrl+D di akhir baris:\n");
nomor4.c:18:1: note: include '<stdio.h>' or provide a declaration of 'printf'
nomor4.c:19:12: warning: implicit declaration of function 'read' [-Wimplicit-function-declaration]
19 | while((n = read(0, buf, sizeof(buf))) > 0)
nomor4.c:22:2: warning: implicit declaration of function 'write' [-Wimplicit-function-declaration]
   22 | write(fd, buf, len);
nomor4.c:24:1: warning: implicit declaration of function 'close' [-Wimplicit-function-declaration]
   24 | close(fd);
             ustomcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
```

#### No 4 b

```
• • •
                      root@customcare: /home/bns/Documents/UNIVERSITAS/Kuliah/prak_so/uas
                                                                                                          Q ...
 GNU nano 5.3
                                                      nomor4b.c
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_RDON
               printf("%s file does not exist\n", argv [1]);
               exit(-1);
       close(fd);
                                                               ^T Execute
                               ^W Where Is
^\ Replace
               ^O Write Out
                                               ^K Cut
                                                                               C Location
```

Terdapat sourcode yang hilang yaitu variable "fd" dan juga fungsi "close" serta kurang titik koma(;) pada line 9 setelah exit(-1)

```
Q ...
                       root@customcare: /home/bns/Documents/UNIVERSITAS/Kuliah/prak so/uas
        0
                care)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
    nano nomor4b.c
                                                                                                               1
           ustomcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
    gcc -o fread nomor4b.c
nomor4b.c:3:1: warning: return type defaults to 'int' [-Wimplicit-int]
    3 | main(int argc, char *argv[]){
nomor4b.c: In function 'main':
nomor4b.c:8:3: warning: implicit declaration of function 'printf' [-Wimplicit-function-declaration]
         printf("Usage: .a/.out <filename>\n");
    8
nomor4b.c:8:3: warning: incompatible implicit declaration of built-in function 'printf'
nomor4b.c:3:1: note: include '<stdio.h>' or provide a declaration of 'printf'
   2 | #include <fcntl.h>
      +#include <stdio.h>
  +++
   3 | main(int argc, char *argv[]){
nomor4b.c:14:3: warning: incompatible implicit declaration of built-in function 'printf'
        printf("%s file does not exist\n", argv [1]);
nomor4b.c:14:3: note: include '<stdio.h>' or provide a declaration of 'printf'
nomor4b.c:17:2: warning: incompatible implicit declaration of built-in function 'printf'
        printf("Isi dari file %s adalah : \n", argv[1]);
nomor4b.c:17:2: note: include '<stdio.h>' or provide a declaration of 'printf'
nomor4b.c:18:8: warning: implicit declaration of function 'read' [-Wimplicit-function-declaration]
        while(read(fd, buf, sizeof(buf)) > 0)
nomor4b.c:20:2: warning: implicit declaration of function 'close' [-Wimplicit-function-declaration]
   20
             tomcare)-[/home/.../UNIVERSITAS/Kuliah/prak_so/uas]
        0
```