LAPORAN PRAKTIKUM
SISTEM OPERASI

Disusun oleh :

FAIZAL AHMAD DENA L200210264
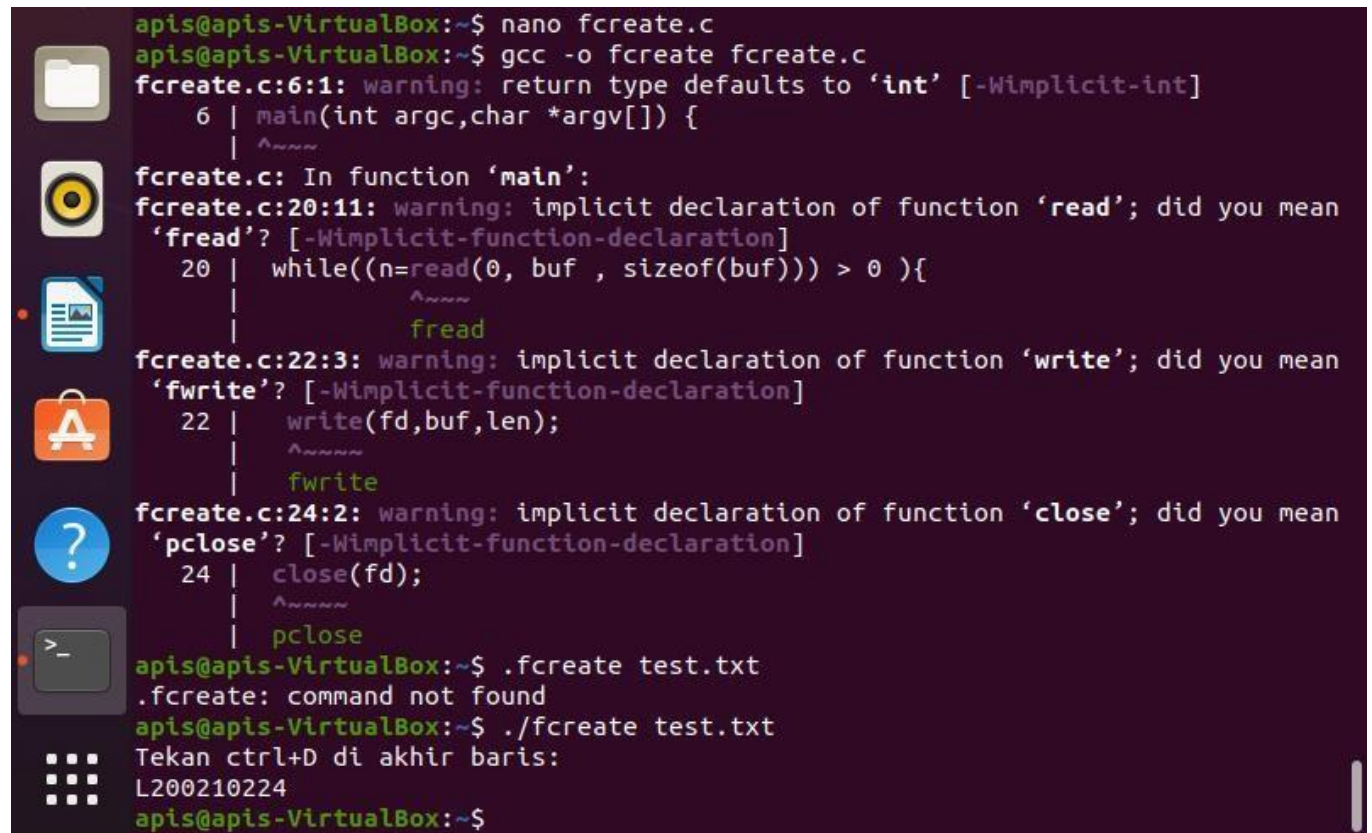
PROGRAM STUDI TEKNIK INFROMATIKA

FAKULTAS KOMUNIKASI DAN INFORMATIKA

UNIVERSITAS MUHAMMADIYAH SURAKARTA

TAHUN 2021/2022

Lembar Kerja Modul 9

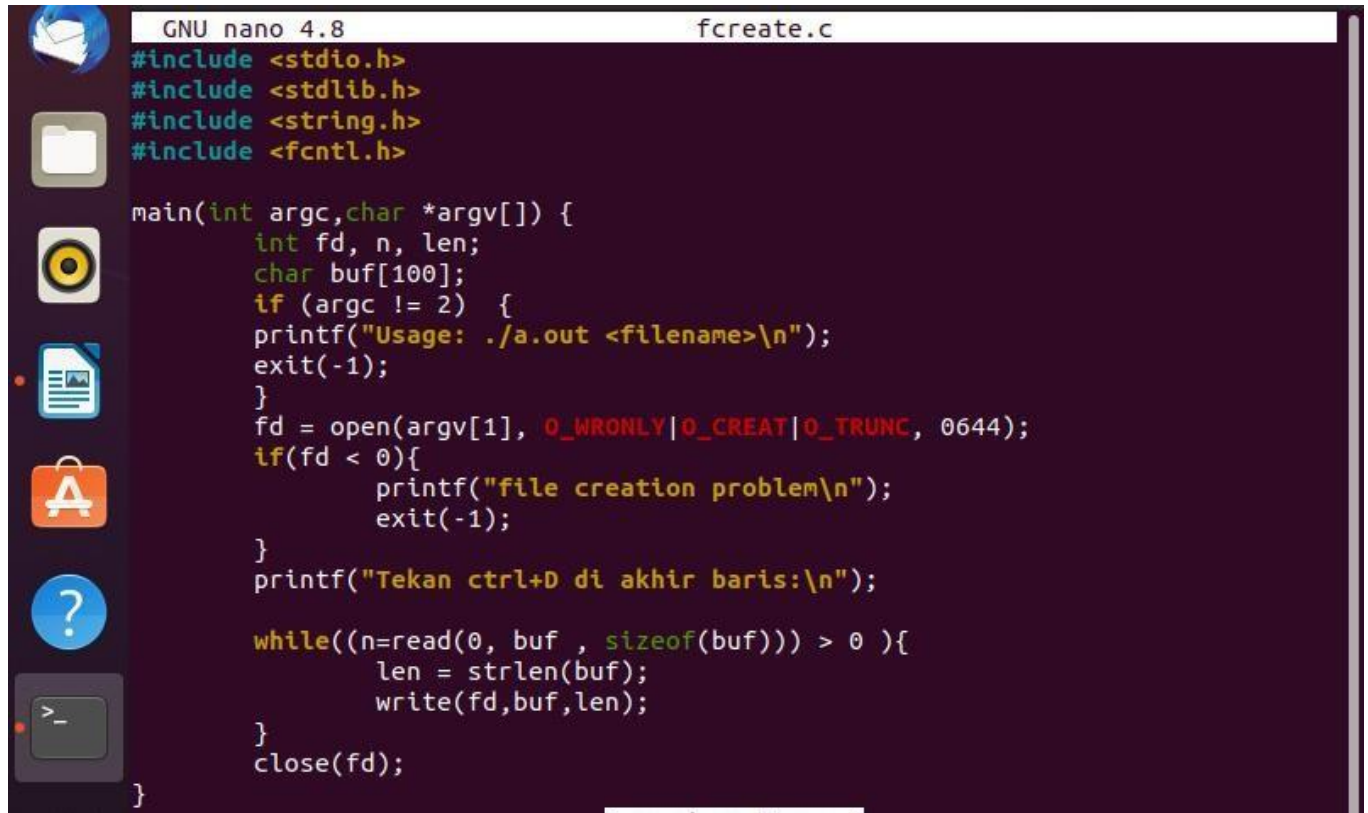| Nama	: Faizal Ahmad Dena	Nilai Praktek :
NIM	: L200210264	
Nama Asisten	:	Tanda Tangan :
Tanggal Praktikum	: -	

TUGAS

Membuat sebuah file dan menuliskan data di dalamnya.

```
apis@apis-VirtualBox:~$ nano fcreate.c
apis@apis-VirtualBox:~$ gcc -o fcreate fcreate.c
fcreate.c:6:1: warning: return type defaults to 'int' [-Wimplicit-int]
    6 | main(int argc,char *argv[]) {
      | ^~~~
fcreate.c: In function 'main':
fcreate.c:20:11: warning: implicit declaration of function 'read'; did you mean
 'fread'? [-Wimplicit-function-declaration]
   20 |   while((n=read(0, buf , sizeof(buf))) > 0 ){
      |           ^~~~
      |           fread
fcreate.c:22:3: warning: implicit declaration of function 'write'; did you mean
 'fwrite'? [-Wimplicit-function-declaration]
   22 |   write(fd,buf,len);
      |   ^~~~~
      |   fwrite
fcreate.c:24:2: warning: implicit declaration of function 'close'; did you mean
 'pclose'? [-Wimplicit-function-declaration]
   24 |  close(fd);
      |  ^~~~~
      |  pclose
apis@apis-VirtualBox:~$ .fcreate test.txt
.fcreate: command not found
apis@apis-VirtualBox:~$ ./fcreate test.txt
Tekan ctrl+D di akhir baris:
L200210224
apis@apis-VirtualBox:~$
```

fcreate.c code

```
GNU nano 4.8                              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);
        }
        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);
}
```

Membaca sebuah file dan menampilkan isinya di layar

```
apis@apis-VirtualBox:~$ nano fread.c
apis@apis-VirtualBox:~$ gcc -o fread fread.c
fread.c:5:1: warning: return type defaults to 'int' [-Wimplicit-int]
    5 | main(int argc,char *argv[] ){
      | ^~~~
fread.c: In function 'main':
fread.c:22:8: warning: implicit declaration of function 'read'; did you mean 'f
read'? [-Wimplicit-function-declaration]
   22 |   while(read(fd,buf,sizeof(buf))>0)
      |        ^~~~
      |        fread
fread.c:25:2: warning: implicit declaration of function 'close'; did you mean '
pclose'? [-Wimplicit-function-declaration]
   25 |   close(fd);
      |   ^~~~
      |   pclose
apis@apis-VirtualBox:~$ ./fread test.txt
Isi dari file test.txt adalah :
L200210224
apis@apis-VirtualBox:~$
```

fread.c code

```
  GNU nano 4.8                           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 does not exist\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);
                              [ Read 26 lines ]
^G Get Help    ^O Write Out   ^W Where Is    ^K Cut Text    ^J Justify
^X Exit        ^R Read File   ^\ Replace     ^U Paste Text  ^T To Spell
```

Menambah isi file.


```
apis@apis-VirtualBox:~$ nano fappend.c
apis@apis-VirtualBox:~$ gcc -o fappend fappend.c
fappend.c:6:1: warning: return type defaults to 'int' [-Wimplicit-int]
    6 | main(int argc,char *argv[] ){
      | ^~~~
fappend.c: In function 'main':
fappend.c:19:11: warning: implicit declaration of function 'read'; did you mean
 'fread'? [-Wimplicit-function-declaration]
   19 |    while((n=read(0, buf , sizeof(buf))) > 0 ){
      |              ^~~~
      |              fread
fappend.c:21:3: warning: implicit declaration of function 'write'; did you mean
 'fwrite'? [-Wimplicit-function-declaration]
   21 |    write(fd,buf,len);
      |    ^~~~~
      |    fwrite
fappend.c:23:2: warning: implicit declaration of function 'close'; did you mean
 'pclose'? [-Wimplicit-function-declaration]
   23 |    close(fd);
      |    ^~~~~
      |    pclose
apis@apis-VirtualBox:~$ ./fappend test.txt
Mohamad Hafiz Saputro
apis@apis-VirtualBox:~$ ./fread test.txt
Isi dari file test.txt adalah :
L200210224
Mohamad Hafiz Saputro
apis@apis-VirtualBox:~$
```

fappend.c code


```
  GNU nano 4.8                          fappend.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_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);
}
```

Kesimpulan

- Saat membuat file dan menuliskan data di dalamnya kode 'fcreate.c' akan di eksekusi.
- Saat membaca file dan menampilkan isinya dilayar kode 'fread.c' akan di eksekusi,kode ini tidak merubah sisi dari file ,hanya untuk menampilkan isi dari file saja.
- Saat akan menambah isi file kode 'fappend.c' akan di eksekusi.Isi dari file sebelumnya akan ditambah.