

PRAKTIKUM SISTEM OPERASI

MODUL 9

“FILE SYSTEM CALL”



DISUSUN OLEH:

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INFORMATIKA

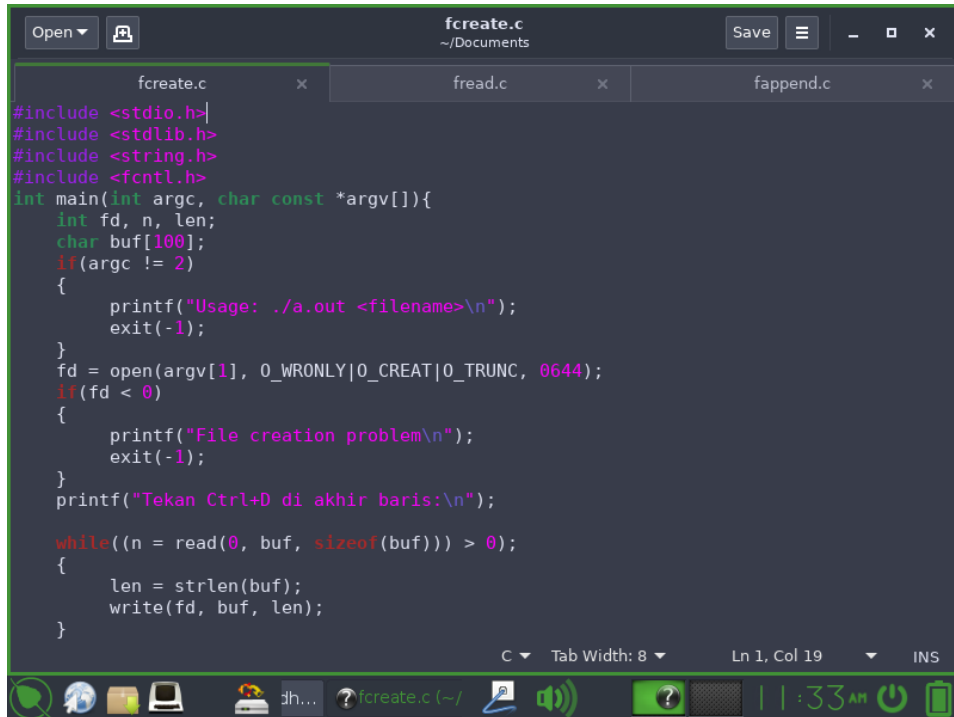
FAKULTAS KOMUNIKASI DAN INFORMATIKA

UNIVERSITAS MUHAMMADIYAH SURAKARTA

2021

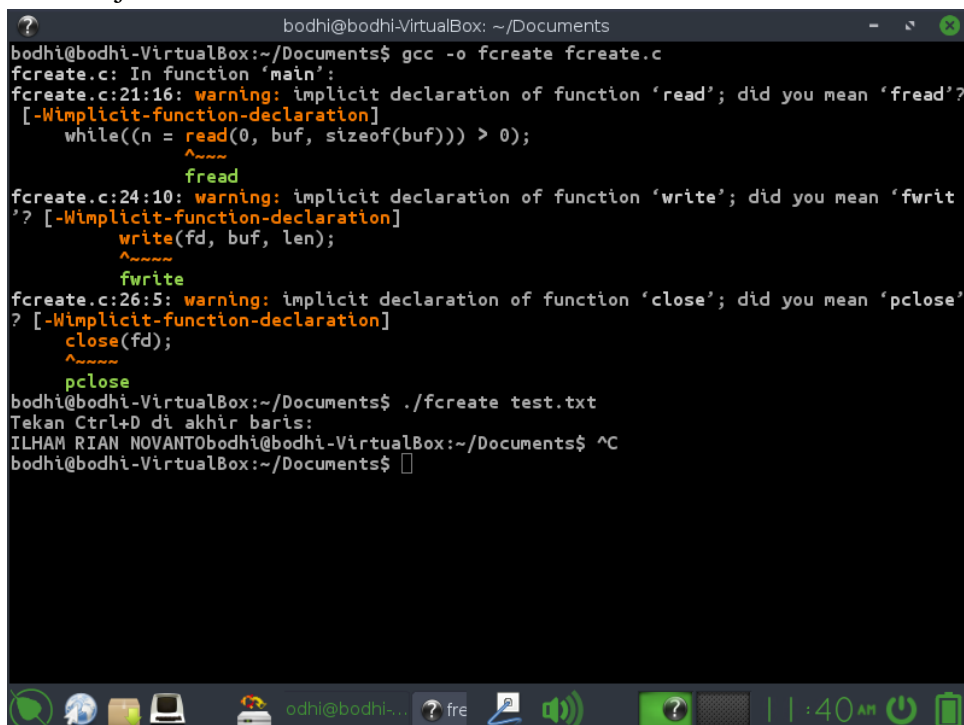
FCREATE.C

1. Membuat program “fcreate.c” pada text editor, kemudian simpan.



```
Open fcreate.c x fread.c x fappend.c x
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <fcntl.h>
int main(int argc, char const *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);
    }
}
```

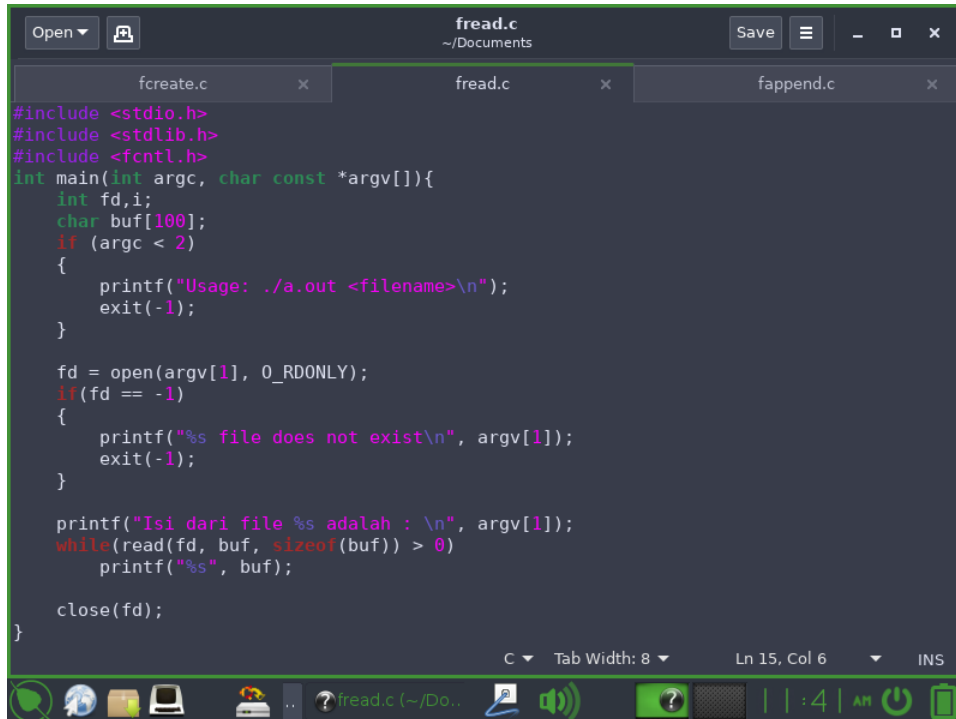
2. Lalu compile file tersebut dengan “gcc -o fcreate fcreate.c” pada terminal . jika kompilasi sudah berhasil jalankan program dengan memanggil nama file ./fcreate test.txt, ketikkan teks dan jika sudah bisa klik **CTRL+D** dan **CTRL + C** untuk exit.



```
bodhi@bodhi-VirtualBox: ~/Documents
bodhi@bodhi-VirtualBox:~/Documents$ gcc -o fcreate fcreate.c
fcreate.c: In function 'main':
fcreate.c:21:16: warning: implicit declaration of function 'read'; did you mean 'fread'?
[-Wimplicit-function-declaration]
    while((n = read(0, buf, sizeof(buf))) > 0);
                  ^~~~~
                  fread
fcreate.c:24:10: warning: implicit declaration of function 'write'; did you mean 'fwrit
'? [-Wimplicit-function-declaration]
    write(fd, buf, len);
    ^~~~~
    fwrite
fcreate.c:26:5: warning: implicit declaration of function 'close'; did you mean 'pclose'
? [-Wimplicit-function-declaration]
    close(fd);
    ^~~~~
    pclose
bodhi@bodhi-VirtualBox:~/Documents$ ./fcreate test.txt
Tekan Ctrl+D di akhir baris:
ILHAM RIAN NOVANTObodhi@bodhi-VirtualBox:~/Documents$ ^C
bodhi@bodhi-VirtualBox:~/Documents$
```

FREAD.C

1. Membuat program “fread.c” pada text editor, kemudian simpan



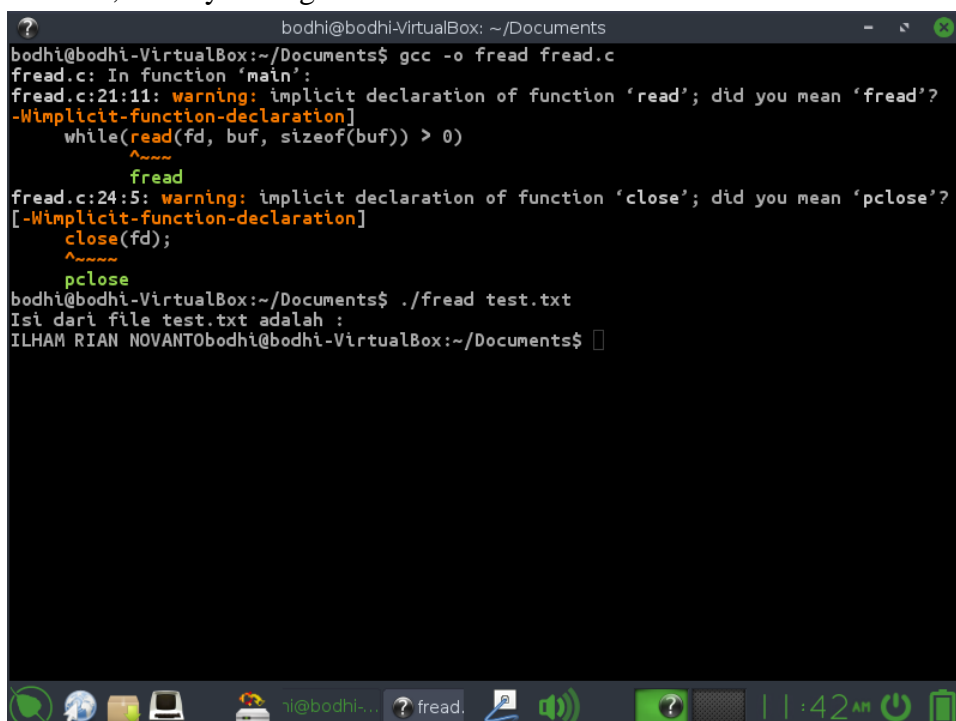
```
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
int main(int argc, char const *argv[]){
    int fd,i;
    char buf[100];
    if (argc < 2)
    {
        printf("Usage: ./a.out <filename>\n");
        exit(-1);
    }

    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);
}
```

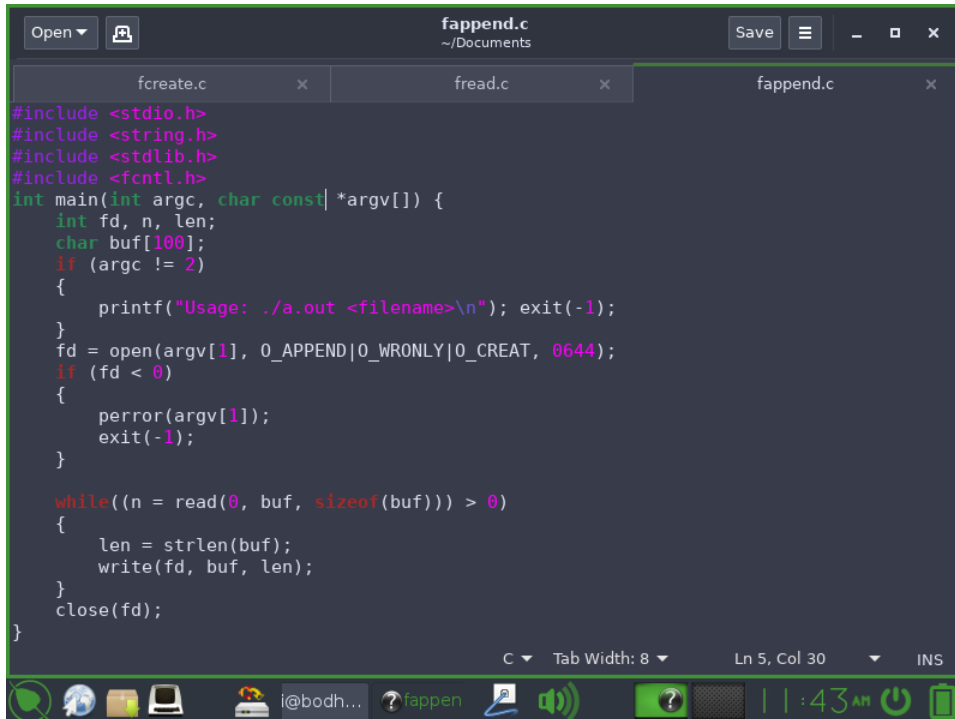
2. Lalu compile file tersebut dengan “gcc -o fread fread.c” pada terminal . lalu ketikkan perintah `./fread test.txt`, maka akan muncul isi dari file test.txt yang telah dibuat dengan fcreate.c, hasilnya sebagai berikut:



```
bodhi@bodhi-VirtualBox: ~/Documents
bodhi@bodhi-VirtualBox:~/Documents$ gcc -o fread fread.c
fread.c: In function 'main':
fread.c:21:11: warning: implicit declaration of function 'read'; did you mean 'fread'?
[-Wimplicit-function-declaration]
    while(read(fd, buf, sizeof(buf)) > 0)
           ^~~~~
           fread
fread.c:24:5: warning: implicit declaration of function 'close'; did you mean 'pclose'?
[-Wimplicit-function-declaration]
    close(fd);
    ^~~~~
    pclose
bodhi@bodhi-VirtualBox:~/Documents$ ./fread test.txt
Isi dari file test.txt adalah :
ILHAM RIAN NOVANTObodhi@bodhi-VirtualBox:~/Documents$
```

FAPPEND.C

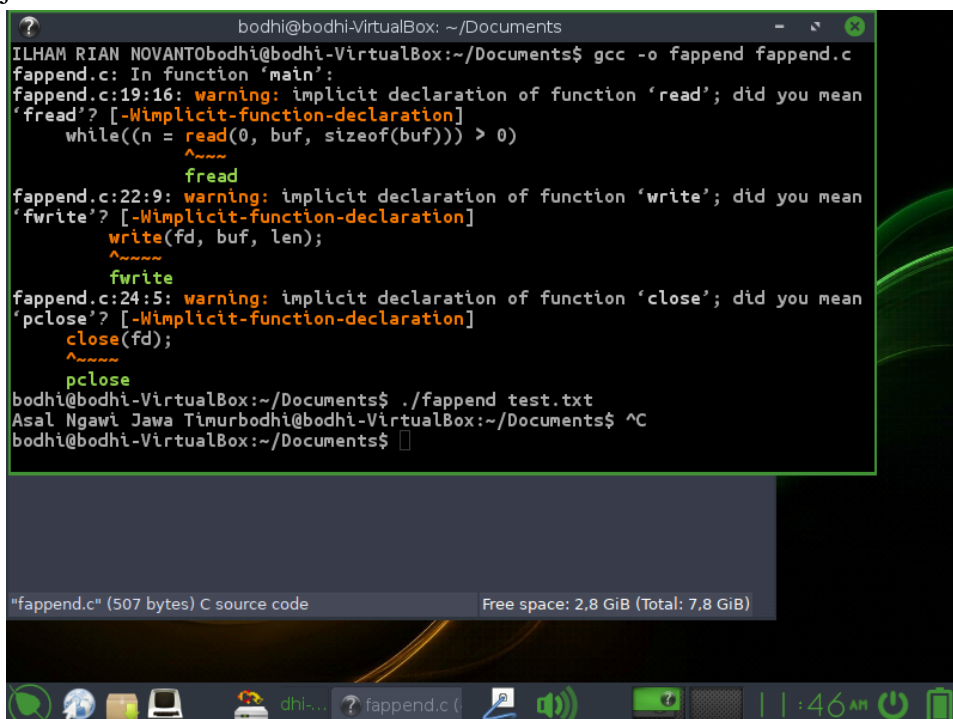
1. Membuat program “fappend.c” pada text editor, kemudian simpan



```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <fcntl.h>
int main(int argc, char const* 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);
    }

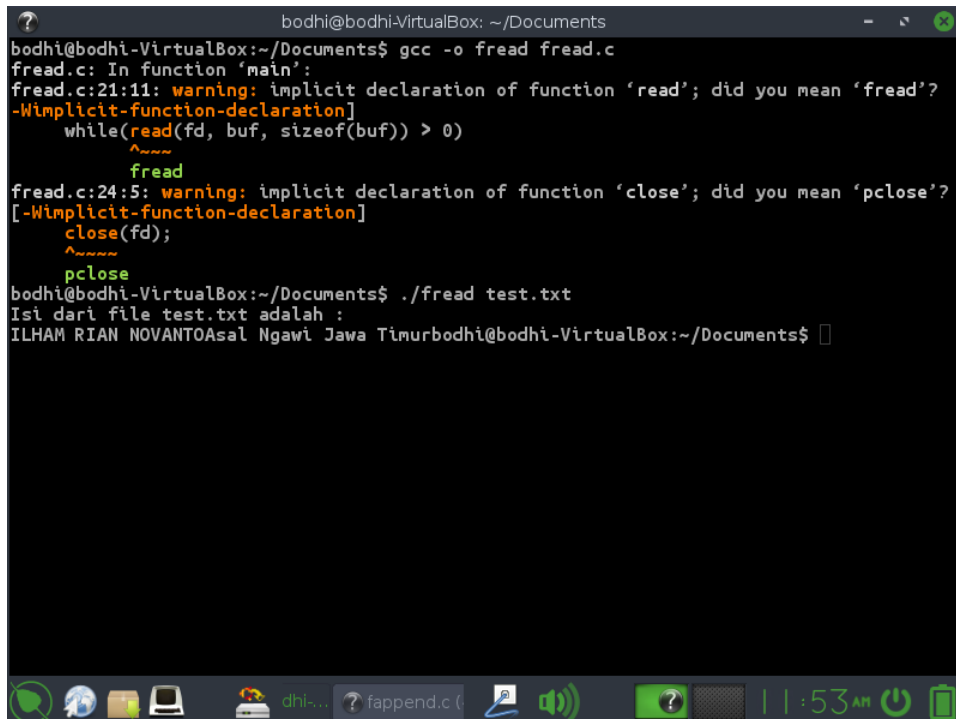
    while((n = read(0, buf, sizeof(buf))) > 0)
    {
        len = strlen(buf);
        write(fd, buf, len);
    }
    close(fd);
}
```

2. Lalu compile file tersebut dengan “gcc -o fappend fappend.c” pada terminal. Lalu ketikkan ./fappend test.txt dan ketikkan teks yang akan ditambahkan pada file test.txt. jika sudah tekan **CTRL+C** lalu exit.



```
bodhi@bodhi-VirtualBox: ~/Documents
ILHAM RIAN NOVANTObodhi@bodhi-VirtualBox:~/Documents$ gcc -o fappend fappend.c
fappend.c: In function 'main':
fappend.c:19:16: warning: implicit declaration of function 'read'; did you mean
'fread'? [-Wimplicit-function-declaration]
    while((n = read(0, buf, sizeof(buf))) > 0)
                  ^~~~~
                  fread
fappend.c:22:9: warning: implicit declaration of function 'write'; did you mean
'fwrite'? [-Wimplicit-function-declaration]
    write(fd, buf, len);
    ^~~~~
    fwrite
fappend.c:24:5: warning: implicit declaration of function 'close'; did you mean
'pclose'? [-Wimplicit-function-declaration]
    close(fd);
    ^~~~~
    pclose
bodhi@bodhi-VirtualBox:~/Documents$ ./fappend test.txt
Asal Ngawi Jawa Timurbodhi@bodhi-VirtualBox:~/Documents$ ^C
bodhi@bodhi-VirtualBox:~/Documents$
```

3. Cek kembali dengan compile “gcc -o fread fread.c” pada terminal. Lalu ketikkan “./fread test.txt”. maka teks yang ditambahkan pada langkah kedua diatas akan ditampilkan, seperti berikut:



```
bodhi@bodhi-VirtualBox: ~/Documents
bodhi@bodhi-VirtualBox:~/Documents$ gcc -o fread fread.c
fread.c: In function 'main':
fread.c:21:11: warning: implicit declaration of function 'read'; did you mean 'fread'?
-Wimplicit-function-declaration
    while(read(fd, buf, sizeof(buf)) > 0)
           ^~~~~
           fread
fread.c:24:5: warning: implicit declaration of function 'close'; did you mean 'pclose'?
[-Wimplicit-function-declaration]
    close(fd);
    ^~~~~
    pclose
bodhi@bodhi-VirtualBox:~/Documents$ ./fread test.txt
Isi dari file test.txt adalah :
ILHAM RIAN NOVANTOAsal Ngawi Jawa Timurbodhi@bodhi-VirtualBox:~/Documents$
```