

**LAPORAN PRAKTIKUM SISTEM OPERASI
MODUL 9
“FILE SYSTEM CALL”**



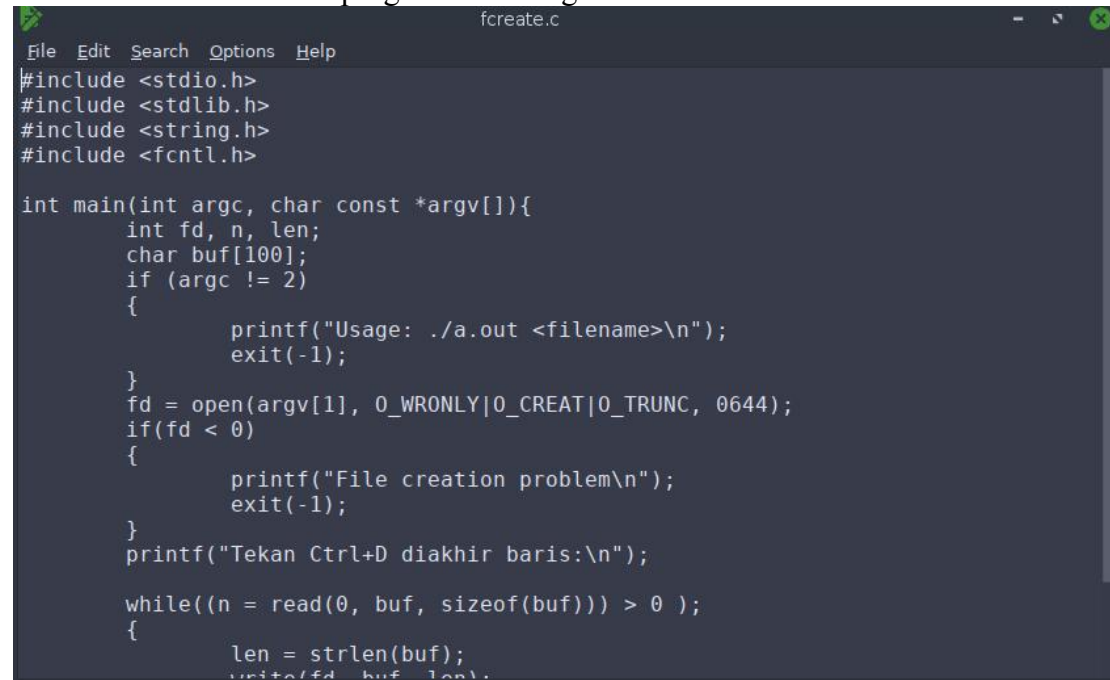
Oleh:

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Muhammadiyah Surakarta**

FCREATE.C

1. Pertama kita membuat program “C” dengan nama “fcreate” lalu save.

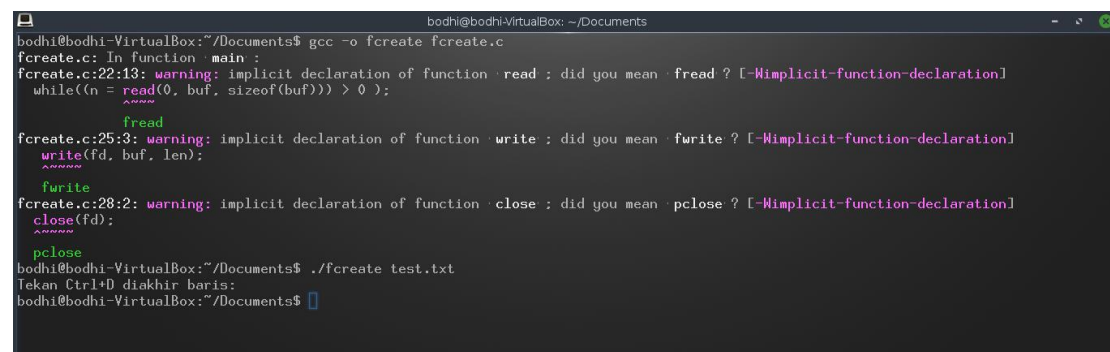


```
File Edit Search Options Help
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <fcntl.h>

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 diakhir baris:\n");

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

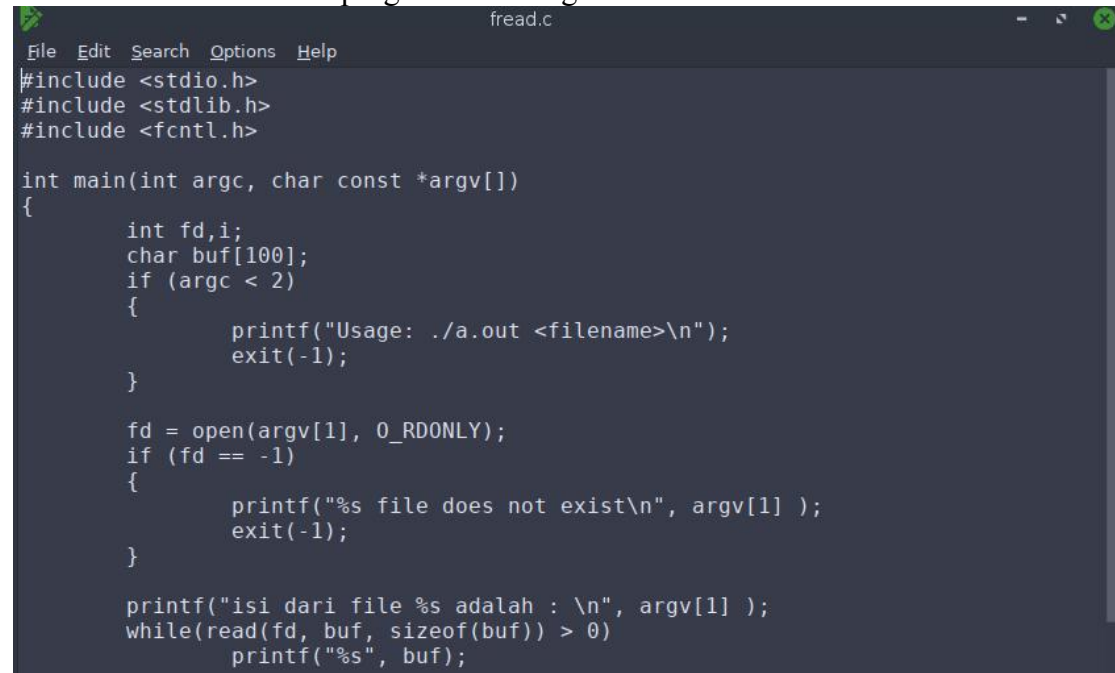
2. Lalu compile file tersebut dengan “gcc -o fcreate fcreate.c”. selanjutnya jika proses kompilasi berhasil jalankan program dengan memanggil nama file \$./fcreate test.txt, ketikan text yang akan disimpan dalam file dan tekan Ctrl + C jika sudah selesai.



```
bodhi@bodhi-VirtualBox: ~/Documents
bodhi@bodhi-VirtualBox:~/Documents$ gcc -o fcreate fcreate.c
fcreate.c: In function 'main':
fcreate.c:22:13: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
while((n = read(0, buf, sizeof(buf))) > 0 );
              ^~~~~~
fcreate.c:25:3: warning: implicit declaration of function 'write'; did you mean 'fwrite'? [-Wimplicit-function-declaration]
write(fd, buf, len);
    ^~~~~~
fcreate.c:28:2: 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 diakhir baris:
bodhi@bodhi-VirtualBox:~/Documents$
```

FREAD.C

1. Pertama kita membuat program “C” dengan nama “fread” lalu save.



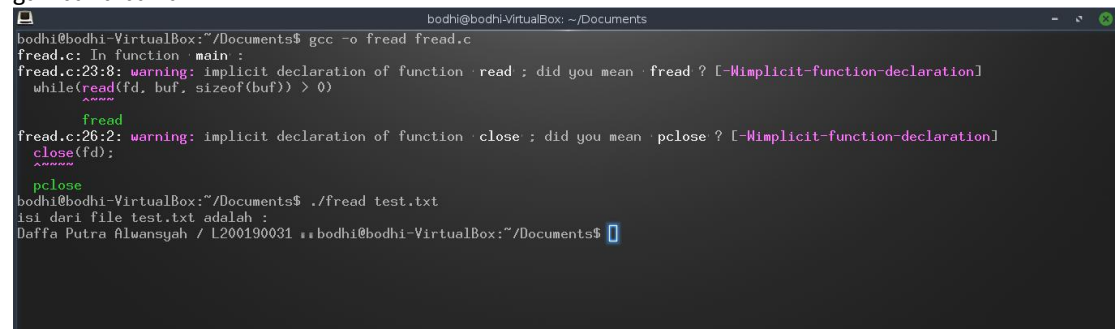
```
fread.c
File Edit Search Options Help
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>

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);
}
```

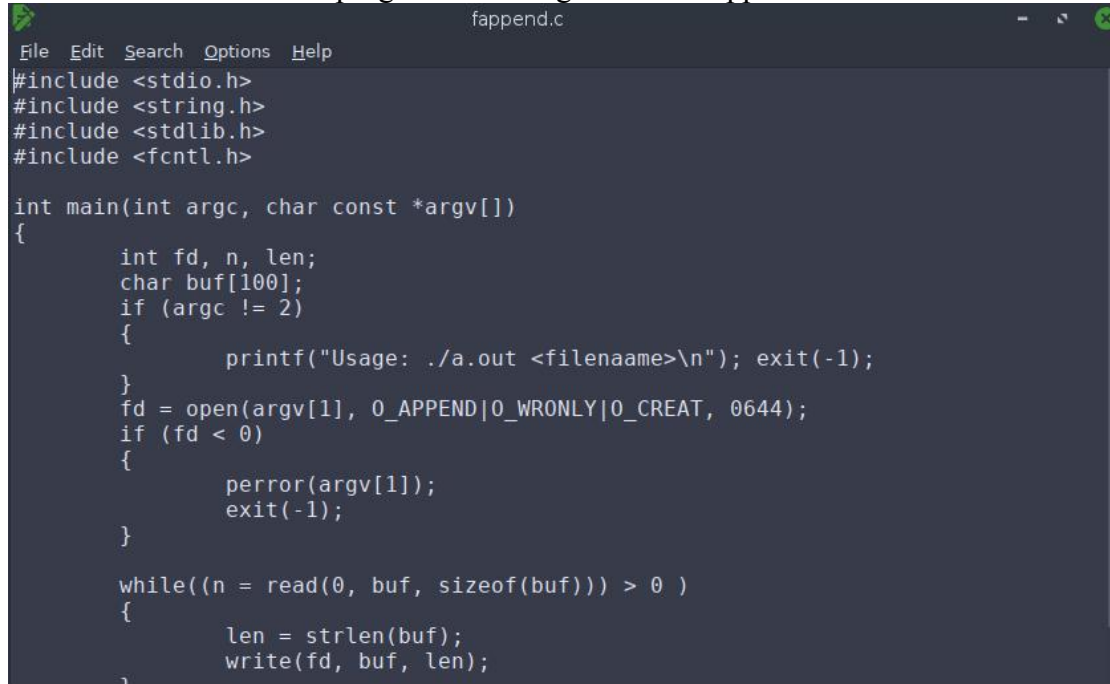
2. Compile file tersebut dengan “gcc -o fread fread.c”, lalu ketikkan “./fread test.txt” maka akan muncul file yang kita ketikkan diatas di “fcreate” dengan file “test.txt”. hasilnya akan tampil seperti gambar dibawah.



```
bodhi@bodhi-VirtualBox: ~/Documents
bodhi@bodhi-VirtualBox:~/Documents$ gcc -o fread fread.c
fread.c: In function 'main':
fread.c:23:8: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
    while(read(fd, buf, sizeof(buf)) > 0)
           ^~~~~
fread.c:26:2: 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 :
Daffa Putra Alwansyah / L200190031 **bodhi@bodhi-VirtualBox:~/Documents$
```

FAPPEND.C

1. Pertama kita membuat program “C” dengan nama “fappend” lalu save.

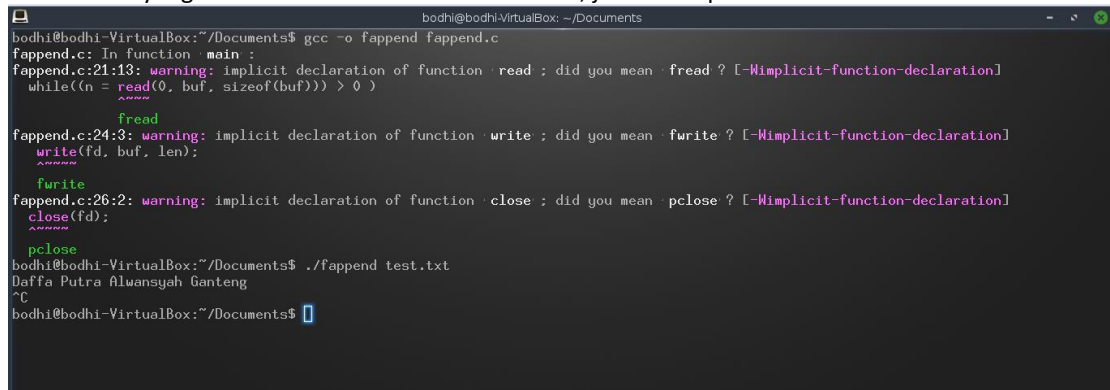


```
File Edit Search Options Help
fappend.c
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <fcntl.h>

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

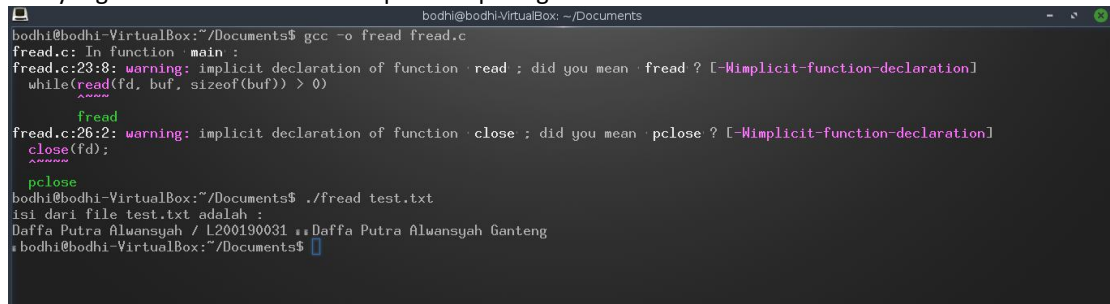
    while((n = read(0, buf, sizeof(buf))) > 0 )
    {
        len = strlen(buf);
        write(fd, buf, len);
    }
}
```

2. Compile file tersebut dengan “gcc -o fappend fappend.c”, lalu ketikan ./fappend test.txt dan ketikan text yang akan ditambah dalam file “test.txt”, jika sudah pencet tombol CTRL + C untuk exit.



```
bodhi@bodhi-VirtualBox: ~/Documents
bodhi@bodhi-VirtualBox:~/Documents$ gcc -o fappend fappend.c
fappend.c: In function 'main':
fappend.c:21:13: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
    while((n = read(0, buf, sizeof(buf))) > 0 )
               ^~~~~~
fread
fappend.c:24:3: warning: implicit declaration of function 'write'; did you mean 'fwrite'? [-Wimplicit-function-declaration]
    write(fd, buf, len);
    ^~~~~
fwrite
fappend.c:26:2: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
    close(fd);
    ^~~~~
pclose
bodhi@bodhi-VirtualBox:~/Documents$ ./fappend test.txt
Daffa Putra Alwansyah Ganteng
^C
bodhi@bodhi-VirtualBox:~/Documents$
```

3. jika sudah cek kembali dengan compile “gcc -o fread fread.c” lalu ketikan “./fread test.txt”. Maka text yang ditambahkan akan ditampilkan seperti gambar dibawah ini.



```
bodhi@bodhi-VirtualBox: ~/Documents
bodhi@bodhi-VirtualBox:~/Documents$ gcc -o fread fread.c
fread.c: In function 'main':
fread.c:23:8: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
    while(read(fd, buf, sizeof(buf)) > 0)
           ^~~~~~
fread
fread.c:26:2: 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 :
Daffa Putra Alwansyah / 1200190031 **Daffa Putra Alwansyah Ganteng
bodhi@bodhi-VirtualBox:~/Documents$
```