

TUGAS
PRAKTIKUM SISTEM OPERASI
MODUL 9 FILE SYSTEM CALL



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PROGRAM STUDI TEKNIK INFORMATIKA
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Langkah Kerja

1. Membuat sebuah file dan menuliskan data didalamnya.

```

1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4 #include <fcntl.h>
5
6 main(int argc, char * argv[])
7 {
8     int fd, n, len;
9     char buf[100];
10    if (argc != 2)
11    {
12        printf("Usage: ./a.out <filename>\n");
13        exit(-1);
14    }
15    fd = open(argv[1], O_WRONLY|O_CREAT|O_TRUNC, 0644);
16    if (fd < 0)
17    {
18        printf("File creation problem\n");
19        exit(-1);
20    }
21    printf("Tekan Ctrl+D di akhir baris\n");
22    while((n = read(0, buf, sizeof(buf))) > 0)
23    {
24        len = strlen(buf);
25        write(fd, buf, len);
26    }
27    close(fd);
28 }

```

Screenshot kode fcreate.c


ActivitiesTerminalDes 13 10:34

dian@dian-VirtualBox: ~

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dian@dian-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:23:20: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
23 | while((n = read(0, buf, sizeof(buf))) > 0)
 | ^~~~~~
 | fread
fcreate.c:26:17: warning: implicit declaration of function 'write'; did you mean 'fwrite'? [-Wimplicit-function-declaration]
26 | write(fd, buf, len);
 | ^~~~~~
 | fwrite
fcreate.c:29:9: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
29 | close(fd);
 | ^~~~~~
 | pclose
dian@dian-VirtualBox:~\$./fcreate test.txt
Tekan Ctrl+D di akhir baris
Hai Dian

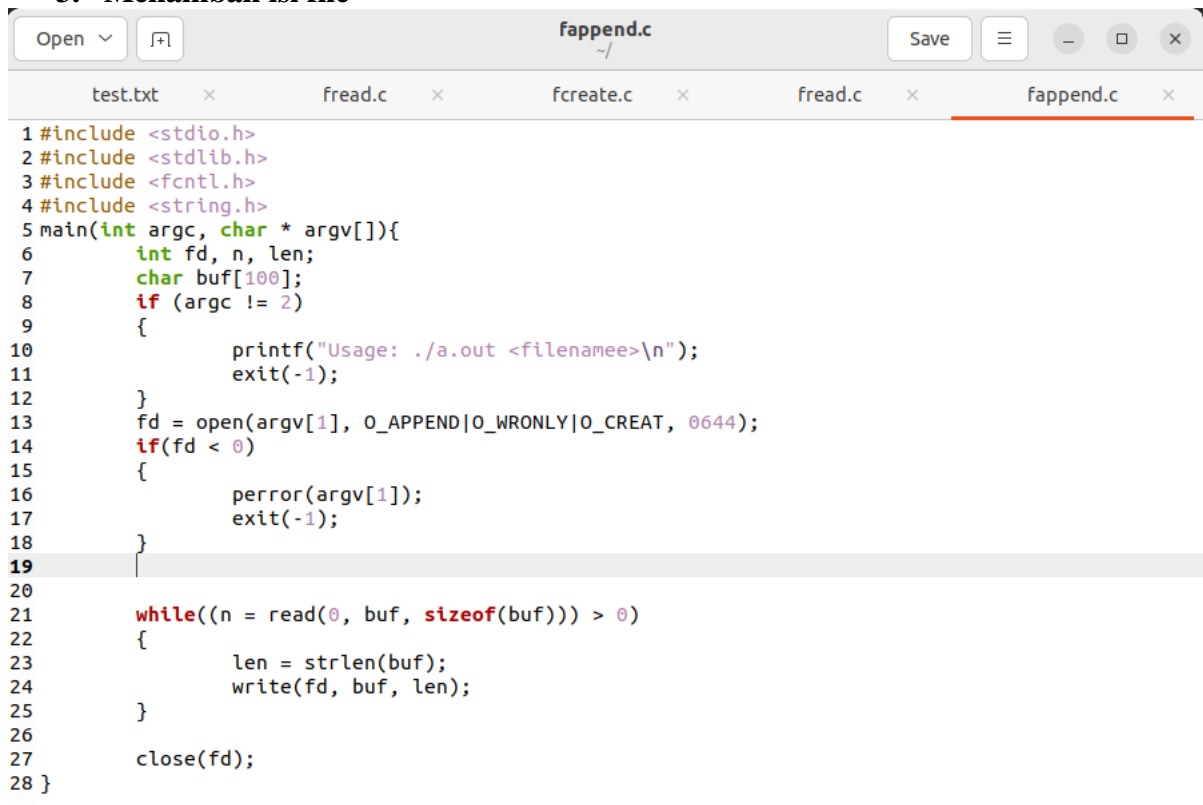
2. Membaca sebuah file dan menampilkan isinya di layar.



```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <fcntl.h>
4 main(int argc, char * argv[]){
5     int fd,i;
6     char buf[100];
7     if (argc < 2)
8     {
9         printf("Usage: ./a.out <filename>\n");
10        exit(-1);
11    }
12    fd = open(argv[1], O_RDONLY);
13    if(fd == -1)
14    {
15        printf("%s file does not exist\n", argv[1]);
16        exit(-1);
17    }
18
19    printf("Isi dari file %s adalah : \n", argv[1]);
20
21    while(read(fd, buf, sizeof(buf)) > 0)
22        printf("%s", buf);
23
24    close(fd);
25 }
```

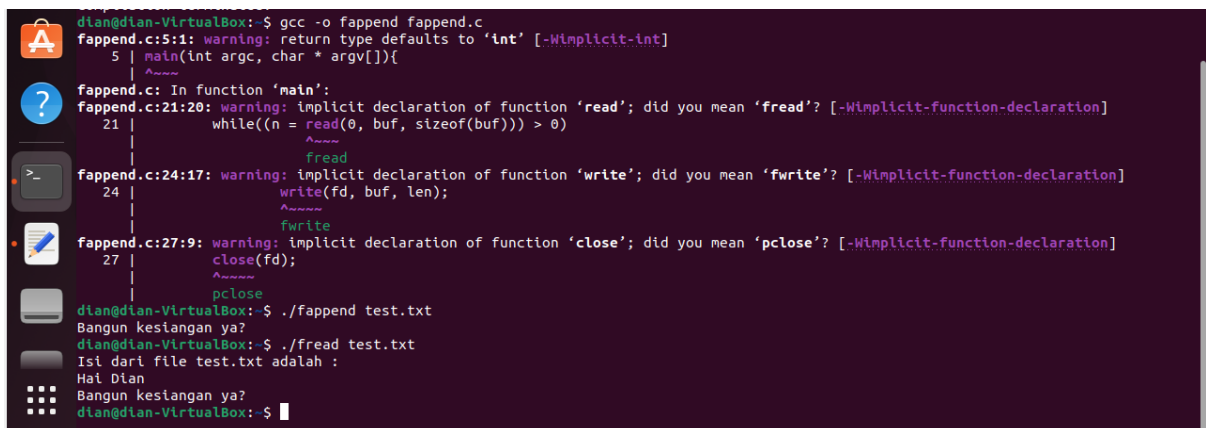
```
dian@dian-VirtualBox:~$ gcc -o fread fread.c
fread.c:4:11: warning: return type defaults to 'int' [-Wimplicit-int]
4 | main(int argc, char * argv[]){
  |           ^~~~~~
fread.c: In function 'main':
fread.c:21:15: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
21 |         while(read(fd, buf, sizeof(buf)) > 0)
  |               ^~~~~~
fread.c:24:9: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
24 |         close(fd);
  |         ^~~~~~
dian@dian-VirtualBox:~$ ./fread test.txt
Isi dari file test.txt adalah :
Hai Dian
```

3. Menambah isi file



```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <fcntl.h>
4 #include <string.h>
5 main(int argc, char * argv){
6     int fd, n, len;
7     char buf[100];
8     if (argc != 2)
9     {
10         printf("Usage: ./a.out <filename>\n");
11         exit(-1);
12     }
13     fd = open(argv[1], O_APPEND|O_WRONLY|O_CREAT, 0644);
14     if(fd < 0)
15     {
16         perror(argv[1]);
17         exit(-1);
18     }
19
20
21     while((n = read(0, buf, sizeof(buf))) > 0)
22     {
23         len = strlen(buf);
24         write(fd, buf, len);
25     }
26
27     close(fd);
28 }
```

Screenshot kode fappend.c



```
diangdian-VirtualBox: $ gcc -o fappend fappend.c
fappend.c:5:11: warning: return type defaults to 'int' [-Wimplicit-int]
5 | main(int argc, char * argv){
  |         ^
fappend.c: In function 'main':
fappend.c:21:20: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
21 |     while((n = read(0, buf, sizeof(buf))) > 0)
  |                   ^~~~~
fappend.c:24:17: warning: implicit declaration of function 'write'; did you mean 'fwrite'? [-Wimplicit-function-declaration]
24 |         write(fd, buf, len);
  |         ^~~~~
fappend.c:27:9: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
27 |     close(fd);
  |     ^~~~~
diangdian-VirtualBox: $ ./fappend test.txt
Bangun kesiangn ya?
diangdian-VirtualBox: $ ./fread test.txt
Isi dari file test.txt adalah :
Hai Dian
Bangun kesiangn ya?
diangdian-VirtualBox: $
```

Screenshot kode terminal fappend.c