

Nama : Titis Ulfa Mustikawati

NIM : L200170057

Kelas : C

MODUL 9 : File System Call

1. 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[900];
    if (argc != 2)
    {
        printf("Usage : ./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);
}

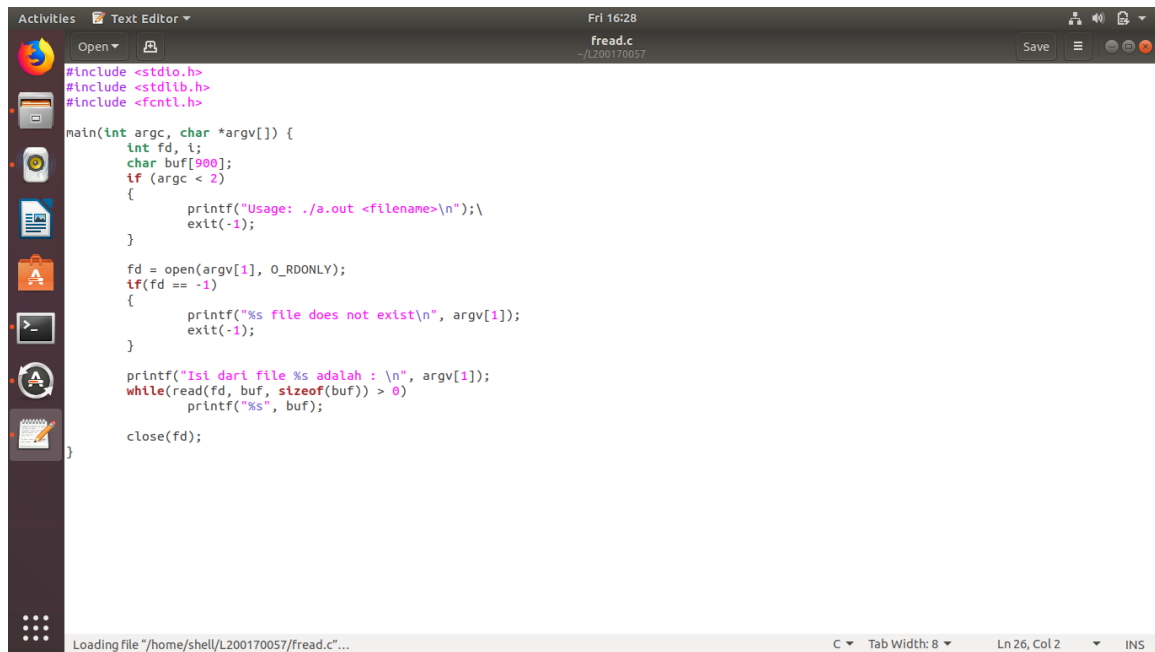
```

```

shell@ubuntu: ~/L200170057
shell@ubuntu:~/L200170057$ gedit fcreate.c
shell@ubuntu:~/L200170057$ gcc -o fcreate fcreate.c
fcreate.c:6:1: warning: return type defaults to 'int' [-Wimplicit-int]
main(int argc, char *argv[]) {
^~~~~~
fcreate.c: In function 'main':
fcreate.c:23:13: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
    while((n = read(0, buf, sizeof(buf))) > 0)
                ^~~~~~
fcreate.c:26:3: warning: implicit declaration of function 'write'; did you mean 'fwrite'? [-Wimplicit-function-declaration]
    write(fd, buf, len);
    ^~~~~~
fcreate.c:29:2: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
    close(fd);
    ^~~~~~
shell@ubuntu:~/L200170057$ ./fcreate text.txt
Tekan Ctrl+D di akhir baris:
shell@ubuntu:~/L200170057$ ^C
shell@ubuntu:~/L200170057$ ./fcreate text.txt
Tekan Ctrl+D di akhir baris:
Titis Ulfa Mustikawati
L200170057
shell@ubuntu:~/L200170057$

```

2. Fread.c



```
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>

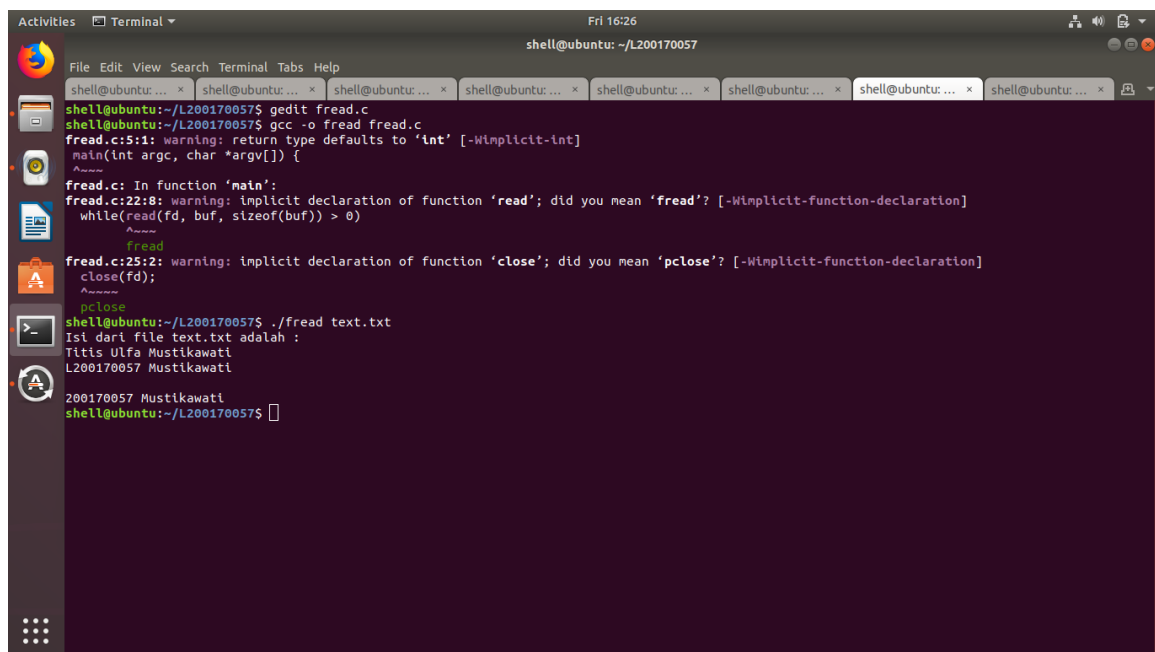
main(int argc, char *argv[]) {
    int fd, i;
    char buf[900];
    if (argc < 2)
    {
        printf("Usage: ./a.out <filename>\n");
        exit(-1);
    }

    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);
}
```

Loading file "/home/shell/L200170057/fread.c"...



```
shell@ubuntu: ~/L200170057
File Edit View Search Terminal Tabs Help
shell@ubuntu:~/L200170057$ gedit fread.c
shell@ubuntu:~/L200170057$ gcc -o fread fread.c
fread.c:5:1: warning: return type defaults to 'int' [-Wimplicit-int]
main(int argc, char *argv[]) {
^~~~~
fread.c: In function 'main':
fread.c:22:8: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
while(read(fd, buf, sizeof(buf)) > 0)
       ^~~~~
fread.c:25:2: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
close(fd);
^~~~~
pclose
shell@ubuntu:~/L200170057$ ./fread text.txt
Isi dari file text.txt adalah :
Titis Ulfa Mustikawati
L200170057 Mustikawati

200170057 Mustikawati
shell@ubuntu:~/L200170057$
```

3. Fappend.c



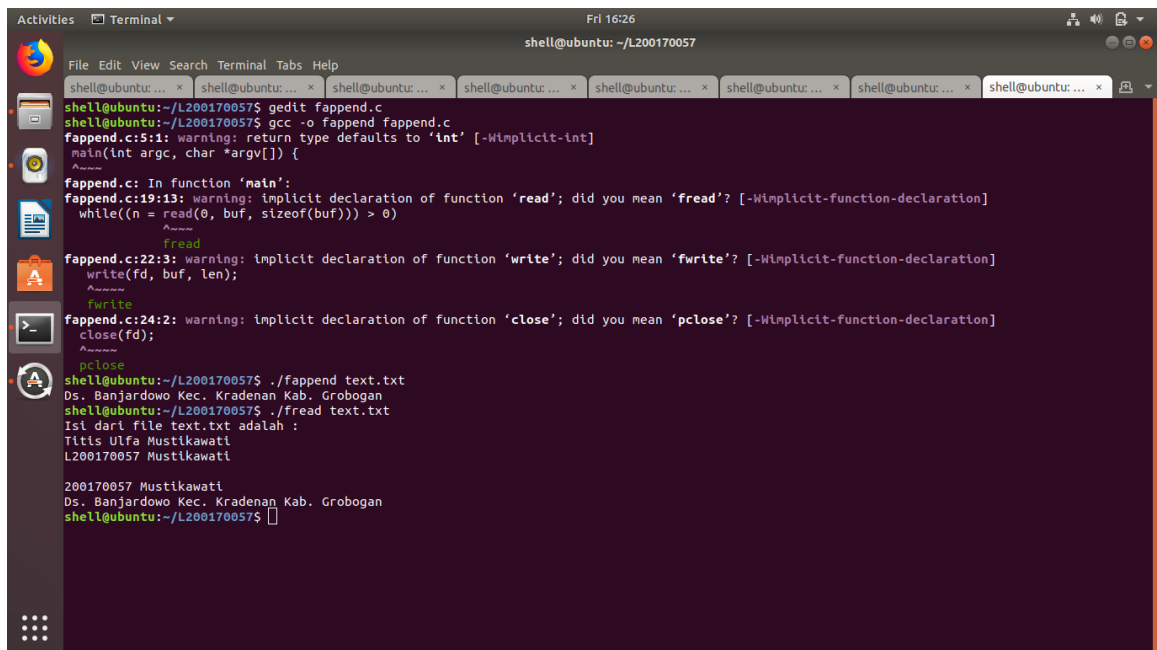
The screenshot shows a text editor window titled "fappend.c" with the following C code:

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <fcntl.h>

main(int argc, char *argv[]) {
    int fd, n, len;
    char buf[900];
    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);
}
```

The status bar at the bottom indicates "Loading file "/home/shell/L200170057/fappend.c"..." and "Ln 25, Col 2".



The screenshot shows a terminal window with the following commands and output:

```
shell@ubuntu:~/L200170057$ gcc -o fappend fappend.c
fappend.c:5:1: warning: return type defaults to 'int' [-Wimplicit-int]
main(int argc, char *argv[]) {
^
fappend.c: In function 'main':
fappend.c:19:13: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
while((n = read(0, buf, sizeof(buf))) > 0)
              ^
fappend.c:22:3: warning: implicit declaration of function 'write'; did you mean 'fwrite'? [-Wimplicit-function-declaration]
write(fd, buf, len);
^
fappend.c:24:2: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
close(fd);
^
shell@ubuntu:~/L200170057$ ./fappend text.txt
Ds. Banjardowo Kec. Kradenan Kab. Grobogan
shell@ubuntu:~/L200170057$ ./fread text.txt
Isi dari file text.txt adalah :
Titis Ulfa Mustikawati
L200170057 Mustikawati

200170057 Mustikawati
Ds. Banjardowo Kec. Kradenan Kab. Grobogan
shell@ubuntu:~/L200170057$
```

