

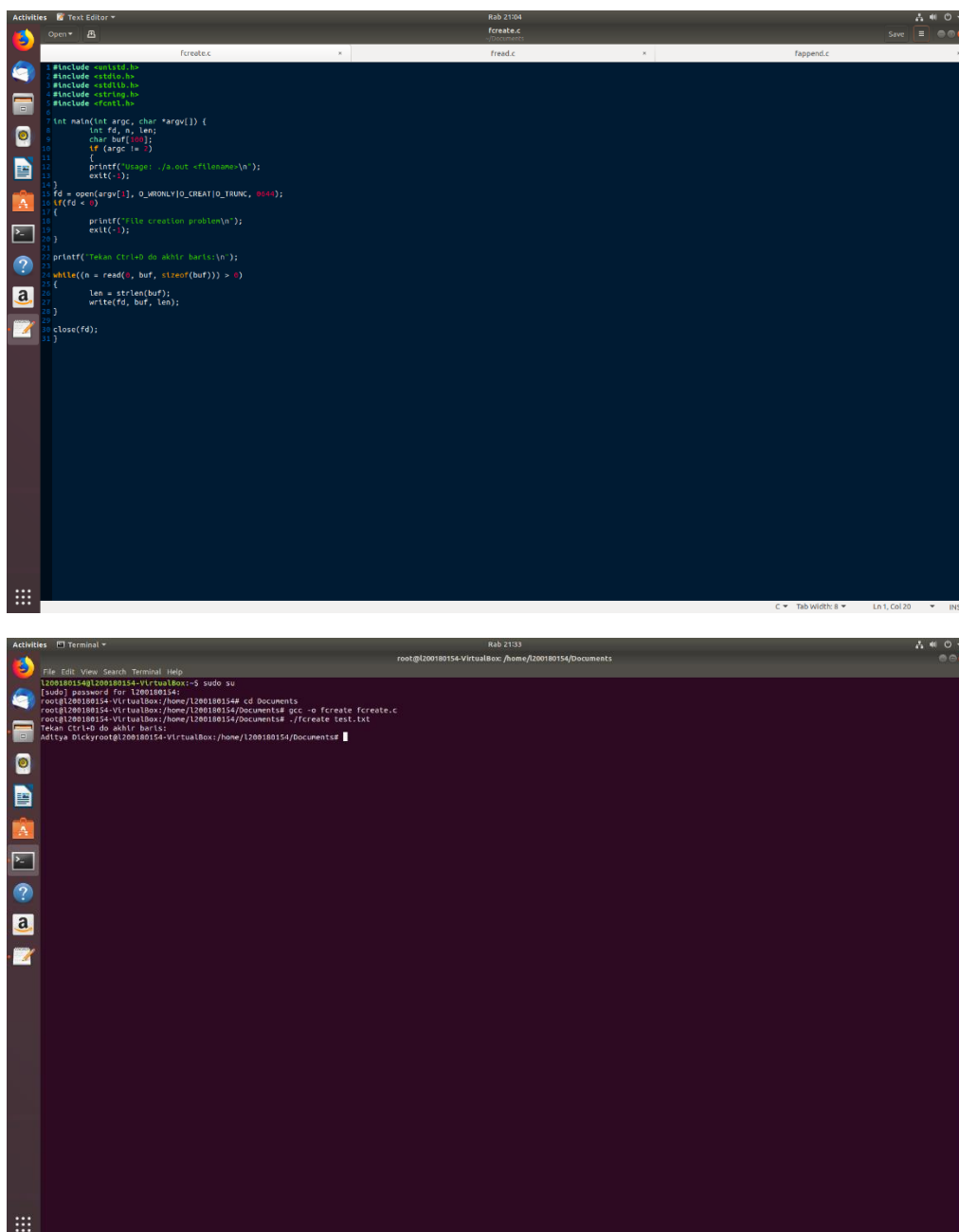
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Kelas : D

## Tugas Praktikum Sistem Operasi (Modul 9)

### fcreate.c



The image shows a Linux desktop environment with two windows. The top window is a text editor titled 'fcreate.c' showing the source code for a file creation program. The code includes standard headers, defines a buffer size, and implements a function to create a file and write data to it. The bottom window is a terminal titled 'Terminal' showing the execution of the program. The user runs 'gcc -o fcreate fcreate.c' to compile the code and then './fcreate test.txt' to create a file named 'test.txt'. The terminal output shows the program's execution steps and the successful creation of the file.

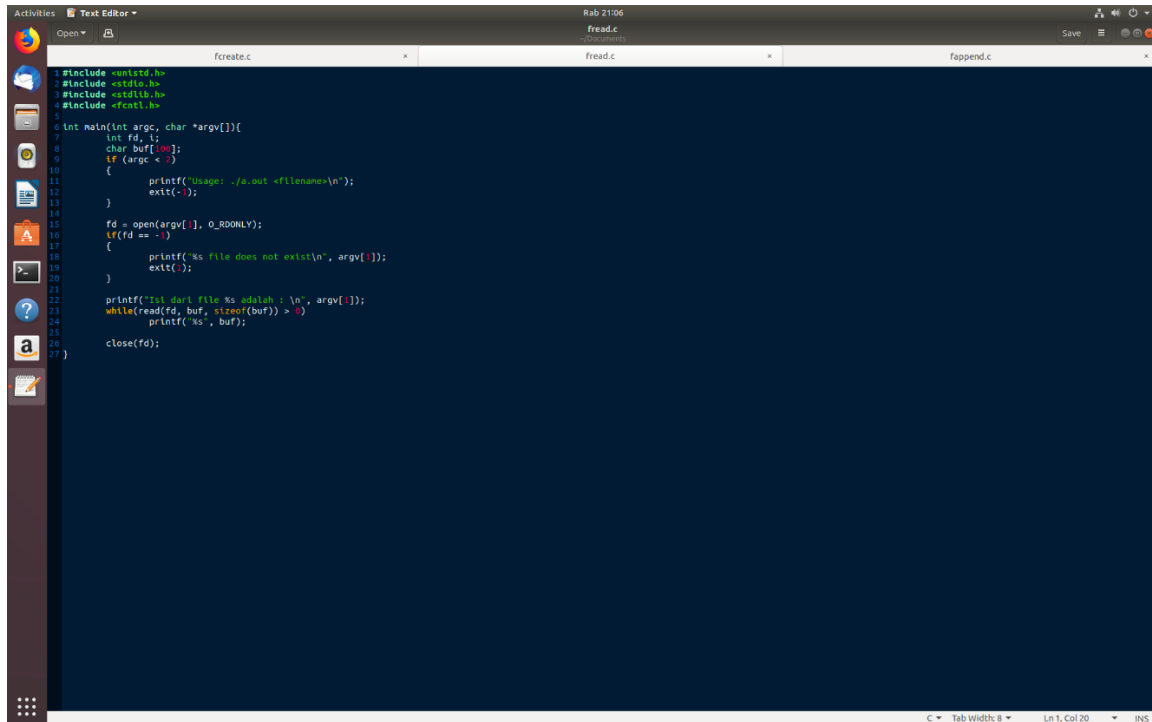
```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>

#define BUF_SIZE 1024

int main(int argc, char *argv[]) {
    int fd, n, len;
    char buf[BUF_SIZE];
    if (argc != 2) {
        printf("Usage: ./a.out <filename>\n");
        exit(-1);
    }
    fd = open(argv[1], O_WRONLY|O_CREAT|O_TRUNC, 0666);
    if (fd < 0) {
        printf("File creation problem\n");
        exit(-1);
    }
    printf("Tekan Ctrl+D do akhir baris:\n");
    while((n = read(0, buf, sizeof(buf))) > 0) {
        len = strlen(buf);
        write(fd, buf, len);
    }
    close(fd);
}
```

```
root@l200180154-VirtualBox: /home/l200180154/Documents
./fcreate test.txt
Tekan Ctrl+D do akhir baris:
Aditya Dickyroot@l200180154-VirtualBox: /home/l200180154/Documents
```

# fread.c



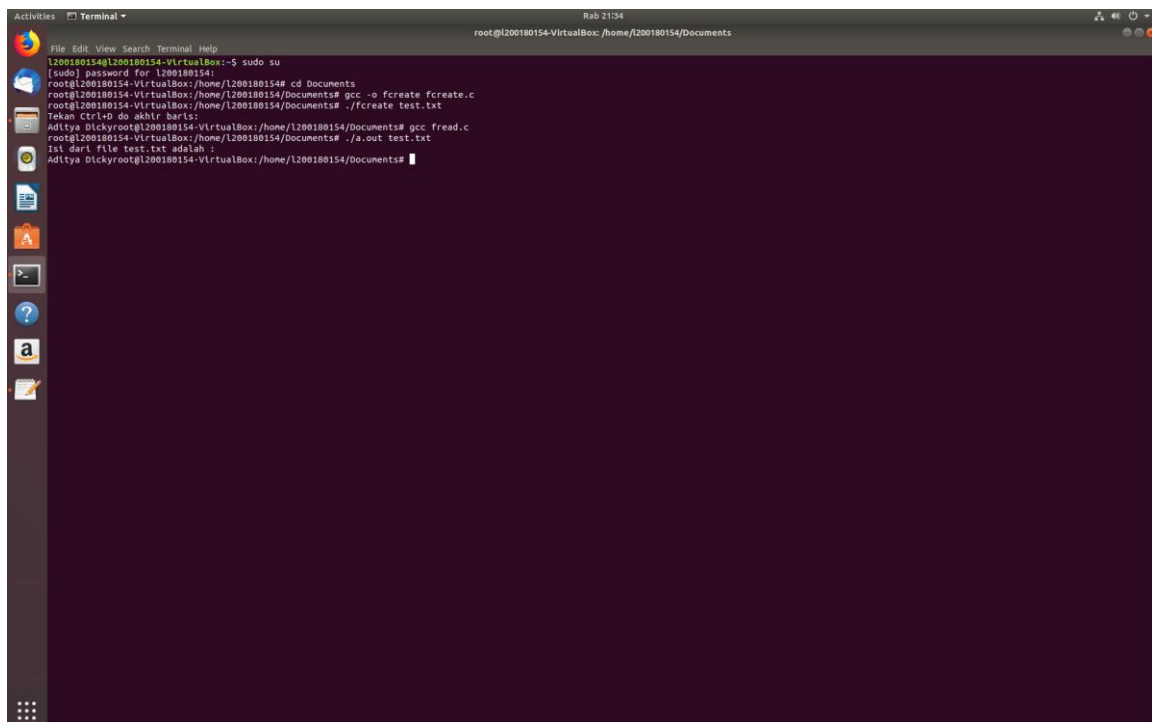
```
#include <unistd.h>
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>

int 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("File does not exist\n", argv[1]);
        exit(-1);
    }

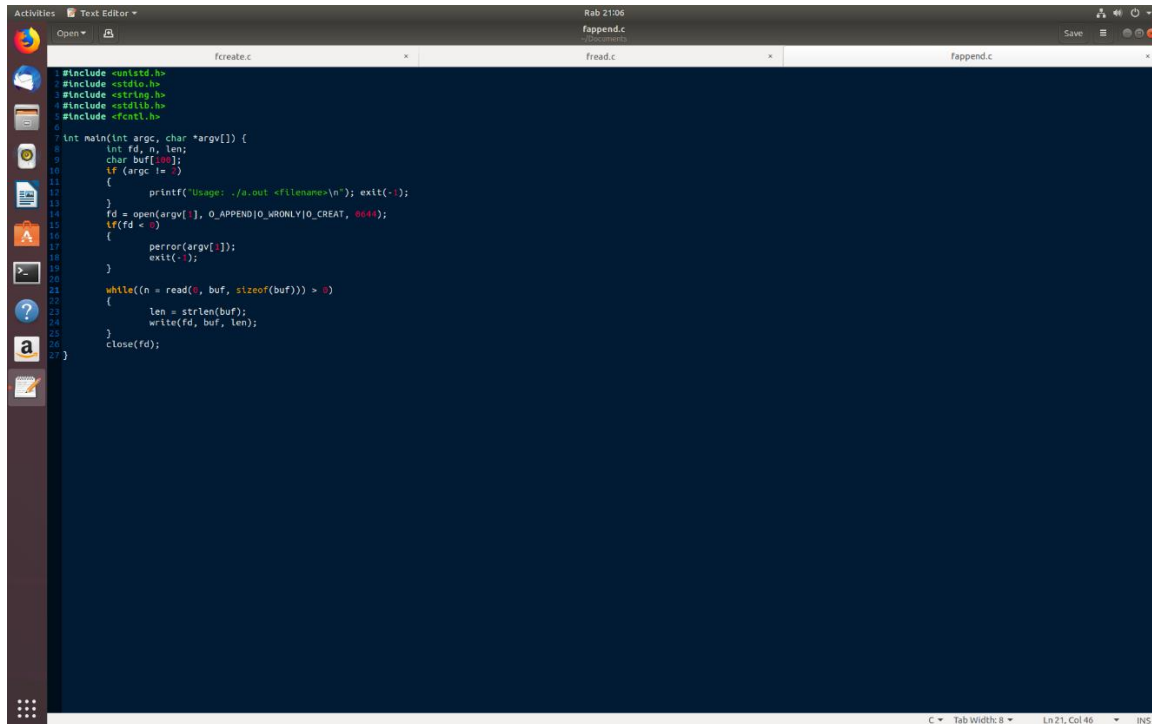
    printf("Isi dari file ini adalah : \n", argv[1]);
    while (read(fd, buf, sizeof(buf)) > 0)
    {
        printf("%s", buf);
    }

    close(fd);
}
```



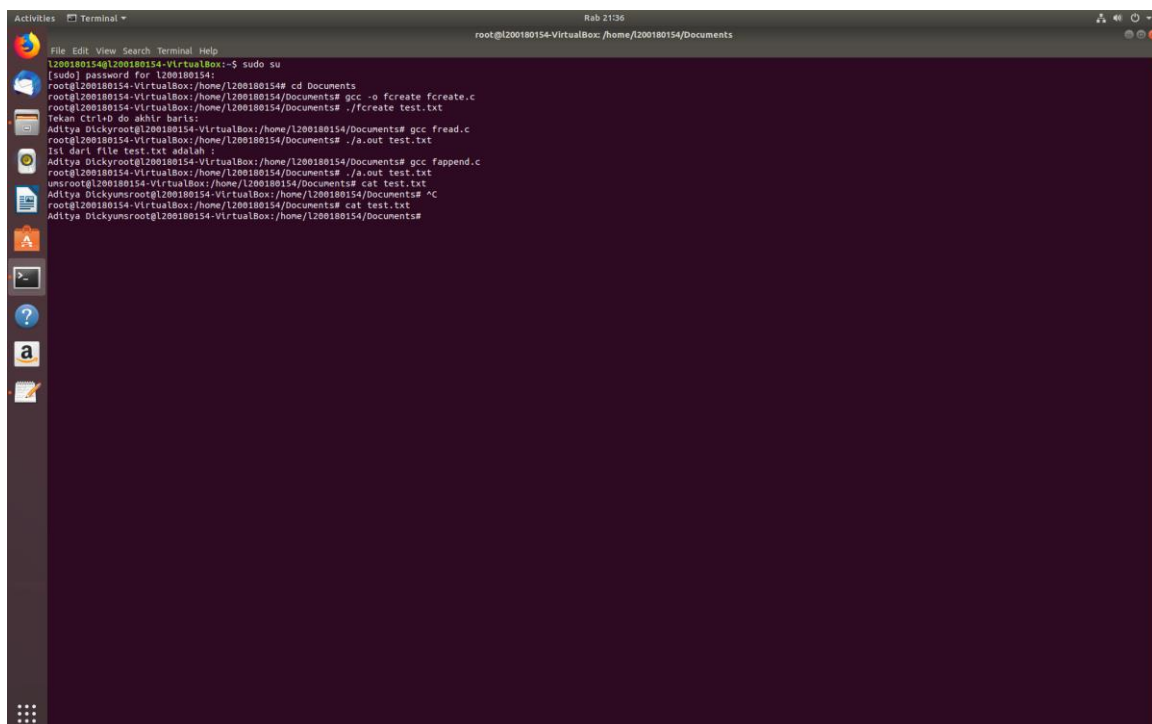
```
root@l200180154-VirtualBox:~/Documents# gcc -o fread fread.c
root@l200180154-VirtualBox:~/Documents# ls -la
total 12
drwxr-xr-x 2 root root 4096 Nov 14 21:13
-rw-r--r-- 1 root root   10 Nov 14 21:13 test.txt
root@l200180154-VirtualBox:~/Documents# ./fread test.txt
Isi dari file test.txt adalah :
Aditya Dickyroot@l200180154-VirtualBox:~/Documents#
```

# fappend.c



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

int main(int argc, char *argv[]) {
    int fd, n, len;
    char buf[1024];
    if (argc != 2) {
        printf("Usage: ./a.out <filename>\n"); exit(-1);
    }
    fd = open(argv[1], O_APPEND | O_WRONLY | O_CREAT, 0644);
    if (fd == -1) {
        perror(argv[1]);
        exit(-1);
    }
    while ((n = read(0, buf, sizeof(buf))) > 0) {
        len = strlen(buf);
        write(fd, buf, len);
    }
    close(fd);
}
```



```
l200180154@l200180154-VirtualBox:~$ sudo su
[sudo] password for l200180154:
root@l200180154-VirtualBox:~# cd Documents
root@l200180154-VirtualBox:~/Documents# gcc -o fcreate fcreate.c
root@l200180154-VirtualBox:~/Documents# ./fcreate test.txt
Tekan Ctrl+D do akhir baris:
Aditya Dickyroot@l200180154-VirtualBox:~/Documents# gcc fread.c
root@l200180154-VirtualBox:~/Documents# ./a.out test.txt
Isi dari file test.txt adalah :
Aditya Dickyroot@l200180154-VirtualBox:~/Documents# gcc fappend.c
root@l200180154-VirtualBox:~/Documents# ./a.out test.txt
unsroot@l200180154-VirtualBox:~/Documents# cat test.txt
Aditya Dickyunsroot@l200180154-VirtualBox:~/Documents# ^C
root@l200180154-VirtualBox:~/Documents# cat test.txt
Aditya Dickyunsroot@l200180154-VirtualBox:~/Documents#
```