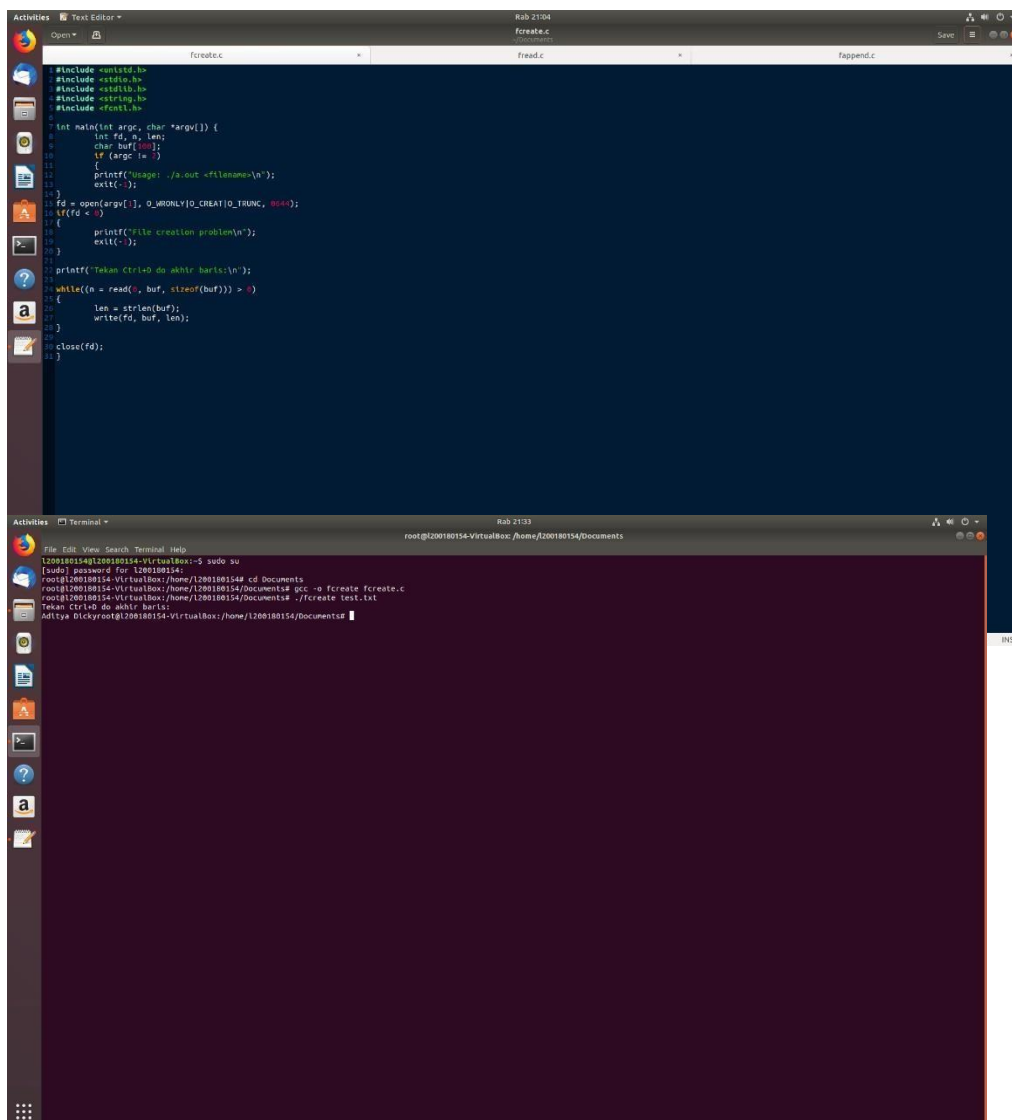


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(Modul 9) fcreate.c



The screenshot displays a Linux desktop environment. The top window is a text editor titled 'fcreate.c' with the following code:

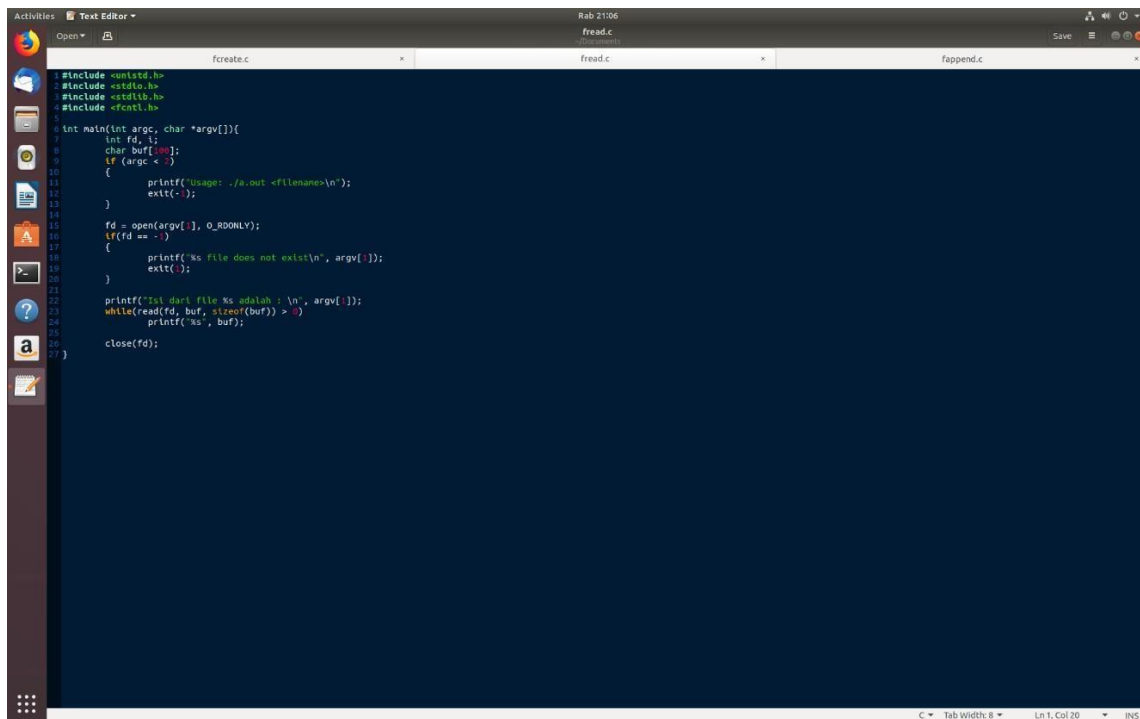
```
#include <unistd.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <fcntl.h>

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_WRONLY | O_CREAT | O_TRUNC, 0644);
    if (fd < 0) {
        printf("File creation problem\n");
        exit(-1);
    }
    printf("Tekan Ctrl+D dan akhir baris:\n");
    while ((n = read(0, buf, sizeof(buf))) > 0) {
        len = strlen(buf);
        write(fd, buf, len);
    }
    close(fd);
}
```

The bottom window is a terminal titled 'Terminal' showing the following commands and output:

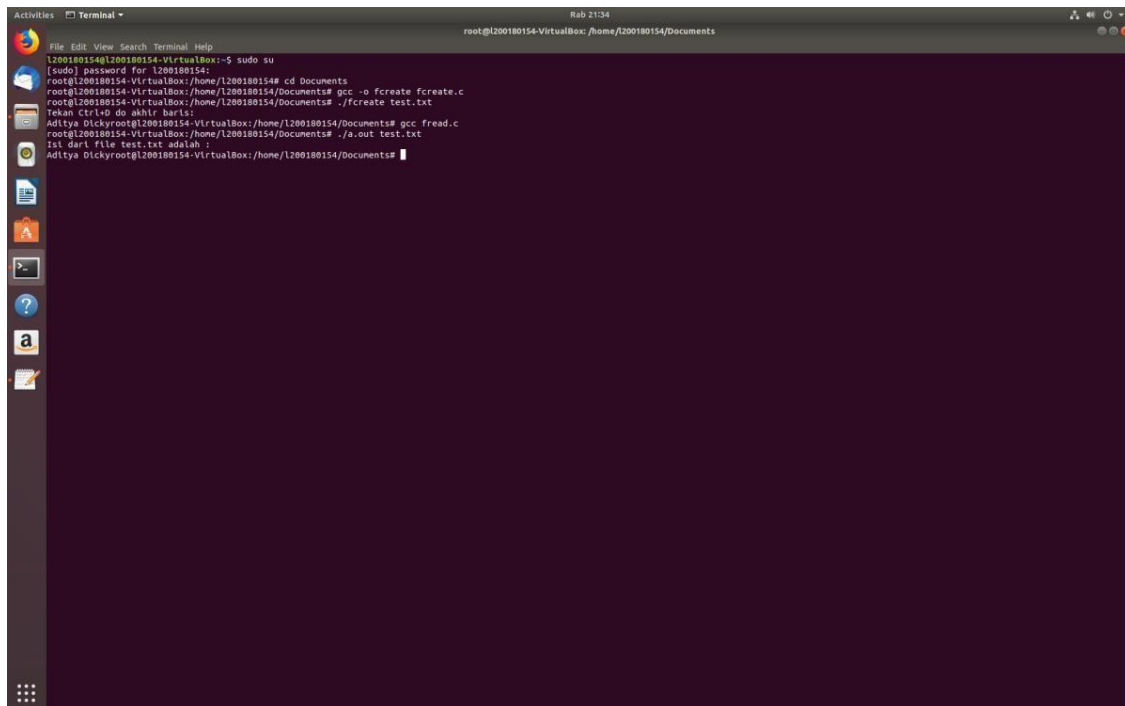
```
root@L200180154-VirtualBox: /home/L200180154/Documents
[sudo] password for L200180154:
root@L200180154-VirtualBox: /home/L200180154/Documents gcc -o fcreate fcreate.c
root@L200180154-VirtualBox: /home/L200180154/Documents ./fcreate test.txt
Tekan Ctrl+D dan akhir baris:
Aditya Dickroot@L200180154-VirtualBox: /home/L200180154/Documents
```

fread.c



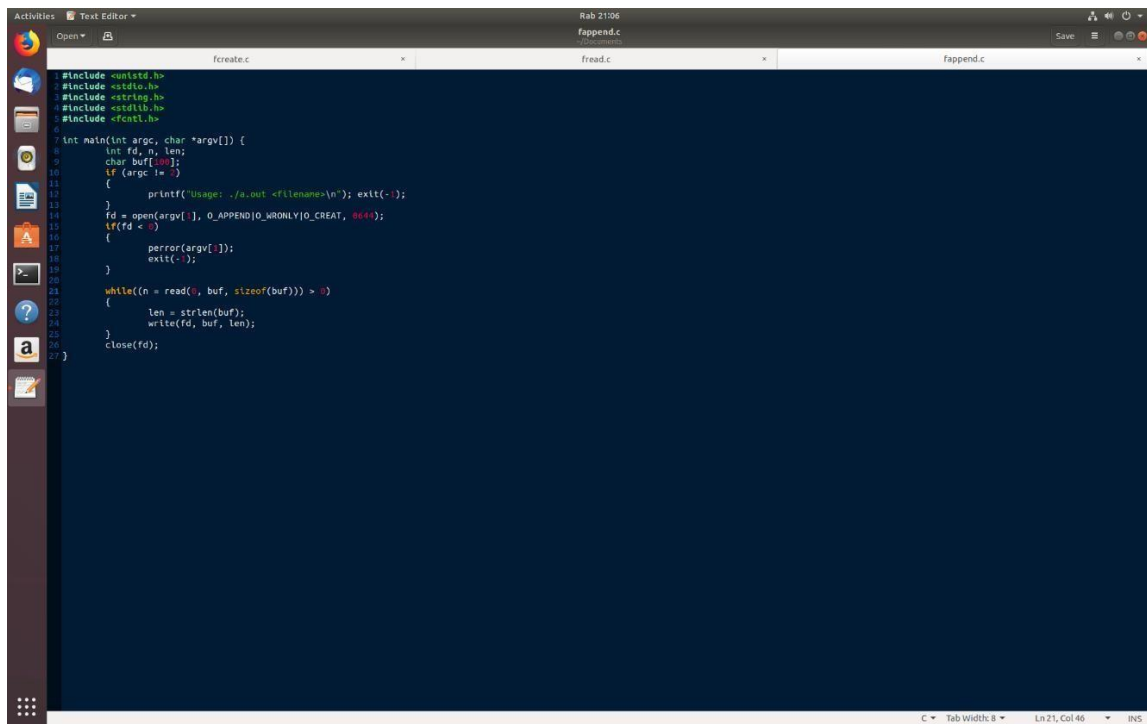
```
#include <unistd.h>
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>

int main(int argc, char *argv[]){
    int fd, i;
    char buf[1024];
    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("Is that file readable? \n", argv[1]);
    while(read(fd, buf, sizeof(buf)) > 0)
    {
        printf("%s", buf);
    }
    close(fd);
}
```



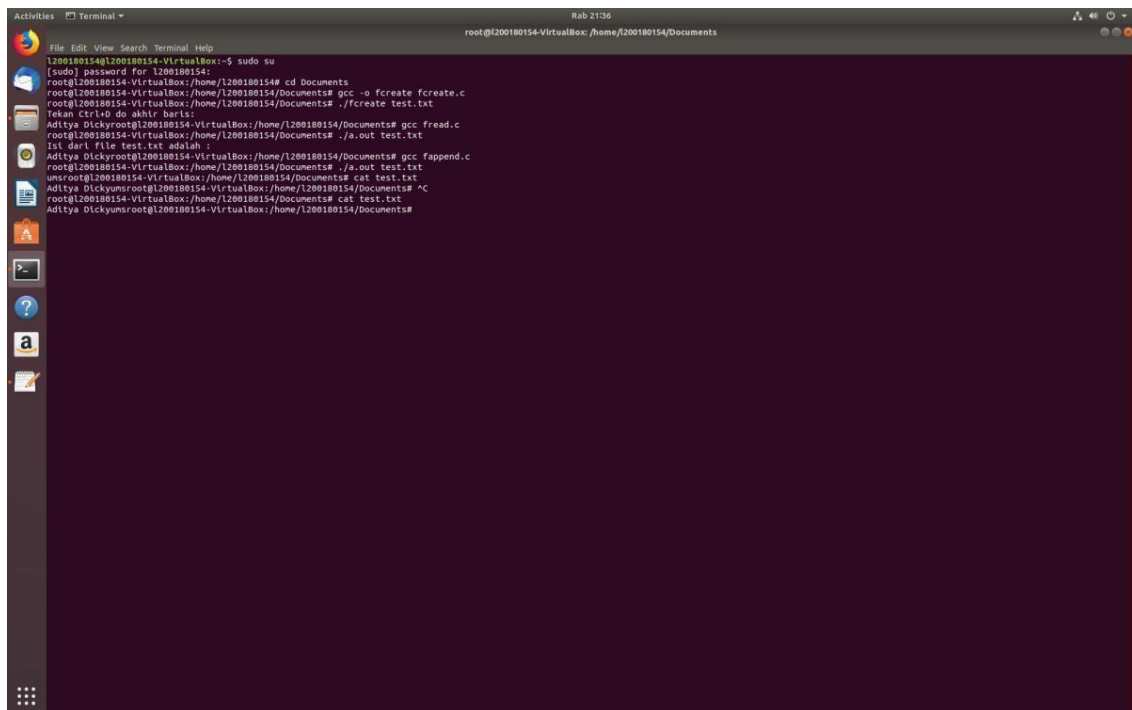
```
l200180154@l200180154-VirtualBox:~$ sudo su
[sudo] password for l200180154:
root@l200180154-VirtualBox:~# cd Documents
root@l200180154-VirtualBox:~/Documents# gcc -o fread fread.c
root@l200180154-VirtualBox:~/Documents# ./fread test.txt
Tekan Ctrl+D do akhir baris:
Aditya Dickyroot@l200180154-VirtualBox:~/Documents# gcc fread.c
root@l200180154-VirtualBox:~/Documents# ./a.out test.txt
Is that file test.txt readable?
Aditya Dickyroot@l200180154-VirtualBox:~/Documents#
```

fappend.c



```
#include <stdio.h>
#include <string.h>
#include <fcntl.h>
#include <unistd.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 < 0) {
        perror(argv[1]);
        exit(-1);
    }
    while((n = read(0, buf, sizeof(buf))) > 0) {
        len = strlen(buf);
        write(fd, buf, len);
    }
    close(fd);
}
```



```
root@l200180154-VirtualBox: /home/l200180154/Documents
[sudo] password for l200180154:
root@l200180154-VirtualBox: /home/l200180154/Documents# gcc -o fcreate fcreate.c
root@l200180154-VirtualBox: /home/l200180154/Documents# gcc -o fread fread.c
root@l200180154-VirtualBox: /home/l200180154/Documents# gcc fappend.c
root@l200180154-VirtualBox: /home/l200180154/Documents# ./a.out test.txt
Isi dari file test.txt adalah :
root@l200180154-VirtualBox: /home/l200180154/Documents# cat test.txt
Aditya Dickyroot@l200180154-VirtualBox: /home/l200180154/Documents#
```