

(1) Write a C program that uses standard I/O libraries to display the contents of text files. The program is compiled and linked by the make tool, which requires the generation of the.o file first, and then the generation of the executable file, and the function of deleting the intermediate file (.o) in the makefile file.

```
frr@frr-virtual-machine:~/ex3/ex1$ vim c1.c
frr@frr-virtual-machine:~/ex3/ex1$ vim makefile
frr@frr-virtual-machine:~/ex3/ex1$ make
gcc -Wall -c c1.c
gcc c1.o -o hello1
frr@frr-virtual-machine:~/ex3/ex1$ vim text.txt
frr@frr-virtual-machine:~/ex3/ex1$ ./hello1 text.txt
My schoolNumber is B22130725 .
My name is frr.
bye
frr@frr-virtual-machine:~/ex3/ex1$
```

(2) Write a C program that displays all the file names in the current directory. The program is compiled and linked by the make tool, which requires the generation of the.o file first, and then the generation of the executable file, and the function of deleting the intermediate file (.o) in the makefile file.

```
frr@frr-virtual-machine:~/ex3/ex2$ vim c2.c
frr@frr-virtual-machine:~/ex3/ex2$ vim makefile
frr@frr-virtual-machine:~/ex3/ex2$ make
gcc -o hello1 c2.o
frr@frr-virtual-machine:~/ex3/ex2$ mkdir one
frr@frr-virtual-machine:~/ex3/ex2$ cd one
frr@frr-virtual-machine:~/ex3/ex2/one$ touch frr1
frr@frr-virtual-machine:~/ex3/ex2/one$ touch frr2
frr@frr-virtual-machine:~/ex3/ex2/one$ cd
frr@frr-virtual-machine:~$ cd ex3
frr@frr-virtual-machine:~/ex3$ cd ex2
frr@frr-virtual-machine:~/ex3/ex2$ ./hello1 one
frr2
..
.
frr1
```

(3) Write a C program that changes the working directory of the current process. The program is compiled and linked by the make tool, which requires the generation of the.o file first, and then the generation of the executable file, and the function of deleting the intermediate file (.o) in the makefile file.

```
frr@frr-virtual-machine:~/ex3/ex3$ vim c3.c
frr@frr-virtual-machine:~/ex3/ex3$ vim makefile
frr@frr-virtual-machine:~/ex3/ex3$ make
gcc -c c3.c
gcc -o hello1 c3.o
frr@frr-virtual-machine:~/ex3/ex3$ ./hello1
/home/frr/ex3/ex3
success
/home
```