(1) Task 1

(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.

```
talys@talys-virtual-machine:~$ gcc -c c1.c
talys@talys-virtual-machine:~$ gcc -o hello1 c1.o
talys@talys-virtual-machine:~$ rm -rf *.o
talys@talys-virtual-machine:~$ ./hello1 B22040812.txt
hello world
```

(2) Task 2

(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.

```
talys@talys-virtual-machine:-$ gcc -c c2.c
talys@talys-virtual-machine:-$ gcc -o hello2 c2.o
talys@talys-virtual-machine:-$ rm -rf *.o
talys@talys-virtual-machine:-$ ./hello2 B22040812
2.txt
1.txt
..
morning.txt
.
```

(3) Task 3

(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.

```
talys@talys-virtual-machine:~$ gcc -c c3.c
talys@talys-virtual-machine:~$ gcc -o hello3 c3.o
talys@talys-virtual-machine:~$ rm -rf *.o
talys@talys-virtual-machine:~$ ./hello3
/home/talys
success
/home
```