

## (1) Task1

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.

```
he@ubuntu:~/桌面$ mkdir linuxlab
he@ubuntu:~/桌面$ cd linuxlab
he@ubuntu:~/桌面/linuxlab$ vi c3_1.c
he@ubuntu:~/桌面/linuxlab$ vi Makefile
he@ubuntu:~/桌面/linuxlab$ make
Makefile:3: *** 缺失分隔符。 停止。
he@ubuntu:~/桌面/linuxlab$ make
make: *** 没有规则可制作目标“c1.c”，由“c1.o” 需求。 停止。
he@ubuntu:~/桌面/linuxlab$ make
gcc -c c1.c
gcc -o hello1 c1.o
he@ubuntu:~/桌面/linuxlab$ ./hello1 example.txt
打开源文件 example.txt 失败
he@ubuntu:~/桌面/linuxlab$ vi example.txt
he@ubuntu:~/桌面/linuxlab$ ./hello1 example.txt
example example
he@ubuntu:~/桌面/linuxlab$
```

## (2) Task2

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.

```
he@ubuntu:~/桌面/linuxlab$ mkdir task2
he@ubuntu:~/桌面/linuxlab$ cd task2
he@ubuntu:~/桌面/linuxlab/task2$ vi c2.c
he@ubuntu:~/桌面/linuxlab/task2$ vi Makefile
he@ubuntu:~/桌面/linuxlab/task2$ make
gcc -c c2.c
gcc -o hello2 c2.o
he@ubuntu:~/桌面/linuxlab/task2$ ./hello2 .
c2.o
hello2
c2.c
..
Makefile
.
```

## (3) Task3

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.

```
he@ubuntu:~/桌面/linuxlab$ mkdir task3
he@ubuntu:~/桌面/linuxlab$ cd task3
cdtask3: 未找到命令
he@ubuntu:~/桌面/linuxlab$ cd task3
he@ubuntu:~/桌面/linuxlab/task3$ vi c3.c
he@ubuntu:~/桌面/linuxlab/task3$ touch Makefile
he@ubuntu:~/桌面/linuxlab/task3$ make
gcc -c c3.c
gcc -o hello3 c3.o
he@ubuntu:~/桌面/linuxlab/task3$ ./hello3
当前工作目录: /home/he/桌面/linuxlab/task3
更改工作目录成功
更改后的工作目录: /home
he@ubuntu:~/桌面/linuxlab/task3$
```