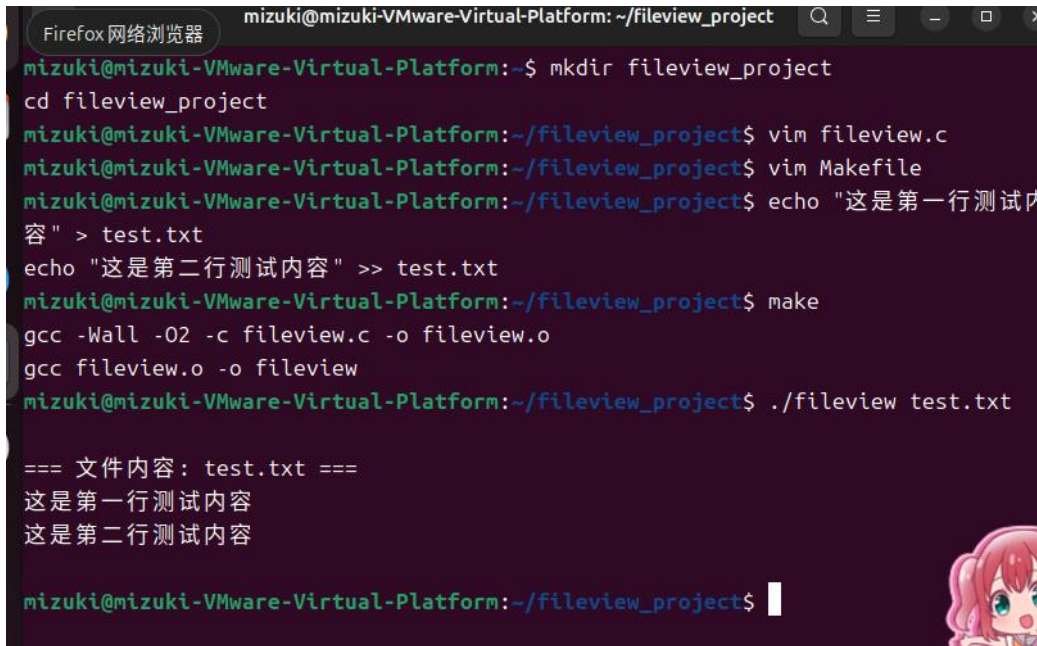


(1) Task 1

(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.



```
Firefox 网络浏览器 mizuki@mizuki-VMware-Virtual-Platform: ~/fileview_project
mizuki@mizuki-VMware-Virtual-Platform:~$ mkdir fileview_project
cd fileview_project
mizuki@mizuki-VMware-Virtual-Platform:~/fileview_project$ vim fileview.c
mizuki@mizuki-VMware-Virtual-Platform:~/fileview_project$ vim Makefile
mizuki@mizuki-VMware-Virtual-Platform:~/fileview_project$ echo "这是第一行测试内容" > test.txt
echo "这是第二行测试内容" >> test.txt
mizuki@mizuki-VMware-Virtual-Platform:~/fileview_project$ make
gcc -Wall -O2 -c fileview.c -o fileview.o
gcc fileview.o -o fileview
mizuki@mizuki-VMware-Virtual-Platform:~/fileview_project$ ./fileview test.txt

=== 文件内容: test.txt ===
这是第一行测试内容
这是第二行测试内容

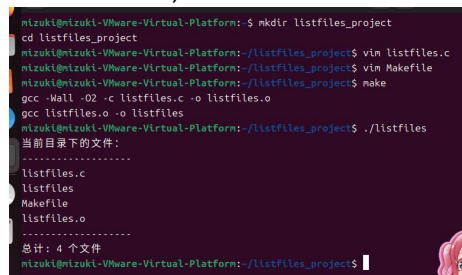
mizuki@mizuki-VMware-Virtual-Platform:~/fileview_project$
```

(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



```
mizuki@mizuki-VMware-Virtual-Platform:~$ mkdir listfiles_project
cd listfiles_project
mizuki@mizuki-VMware-Virtual-Platform:~/listfiles_project$ vim listfiles.c
mizuki@mizuki-VMware-Virtual-Platform:~/listfiles_project$ vim Makefile
mizuki@mizuki-VMware-Virtual-Platform:~/listfiles_project$ make
gcc -Wall -O2 -c listfiles.c -o listfiles.o
gcc listfiles.o -o listfiles
mizuki@mizuki-VMware-Virtual-Platform:~/listfiles_project$ ./listfiles
当前目录下的文件:
.....
listfiles.c
listfiles
Makefile
listfiles.o
.....
总计: 4 个文件
mizuki@mizuki-VMware-Virtual-Platform:~/listfiles_project$
```

(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.

```
mizuki@mizuki-VMware-Virtual-Platform: ~/cd_prog
mizuki@mizuki-VMware-Virtual-Platform:~/cd_program$ vim chdir_prog.c
mizuki@mizuki-VMware-Virtual-Platform:~/cd_program$ vim Makefile
mizuki@mizuki-VMware-Virtual-Platform:~/cd_program$ make
gcc -Wall -g -c chdir_prog.c -o chdir_prog.o
gcc chdir_prog.o -o chdir_prog
mizuki@mizuki-VMware-Virtual-Platform:~/cd_program$ # 创建测试目录
mkdir test_directory

# 测试切换到test_directory
/chdir_prog test_directory

# 测试切换到上级目录
/chdir_prog ..

# 测试切换到根目录
/chdir_prog /

# 测试切换到家目录
/chdir_prog ~

原始工作目录:
当前工作目录是: /home/mizuki/cd_program

切换后的工作目录:
当前工作目录是: /home/mizuki/cd_program/test_directory
原始工作目录:
当前工作目录是: /home/mizuki/cd_program

切换后的工作目录:
当前工作目录是: /home/mizuki
原始工作目录:
当前工作目录是: /home/mizuki/cd_program

切换后的工作目录:
```