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.

```
#include <stdio.h>
int main(int argc, char* argv[])
{
    char buf[1024]={0};
    FILE* fp=fopen(argv[1],"r");
    if(argc<2)
    {
        printf("please input source file!\n");
    }
    if(fp==NULL)
    {
        printf("open source %s failed\n",argv[1]);
        return -1;
    }
    while (fgets(buf,1024,fp))
    {
        printf("%s\n",buf);
    }
    return 0;
}</pre>
```

```
changyumeng@changyumeng-vtrtual-nachtne:-/LInuxLab$ ./c1 c1.c
#finclude <stdio.h>
int main(int argc, char* argv[])
{
    char buf[1024]={0};
    FILE* fp=fopen(argv[1],"r");
    tf(argc<2)
{
    printf("please input source file!\n");
    }

    tf(fp==NULL)
{
    printf("open source %s failed\n",argv[1]);
    return -1;
}

while (fgets(buf,1024,fp))
{
    printf("%s\n",buf);
}

return 0;
}</pre>
```

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 first, and then the generation of the executable file, and the function of deleting the intermediate file (.o) in the makefile file.

```
#include<stdio.h>
#include<dirent.h>
#include<sys/types.h>
int main(int argc,char* argv[])
    DIR* dirp;
    struct dirent* direntp;
    if ((dirp = opendir(argv[1])) == NULL) {
       printf("error\n");
         exit(1);
    //
    }
    while ((direntp = readdir(dirp)) != NULL)
       printf("%s\n", direntp->d name);
    closedir(dirp);
    // \operatorname{exit}(0);
 zhangyumeng@zhangyumeng-virtual-machine:~/LInuxLab$ ./c2 ~
 .sogouinput
音乐
模板
 .ssh
 .bashrc
 .local
 demo
公共的
 .xinputrc
 B22040615.txt
 张雨蒙2.txt
 .thunderbird
 VMware Tools
 .bash_history
 .sudo_as_admin_successful
 LInuxLab
桌面
 .bash_logout
 .cache
 文档
 .presage
 下载
13
视频
 .config
 snap
B22040615
backup.tar.gz
图片
OSLab
 others
 .dbus
 .profile
```

mozilla

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.

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
int main(){
 char buf[1024] = \{0\};
 char buf2[1024]=\{0\};
 getcwd(buf, 1024);
 printf("%s\n", buf);
 if(chdir("/home")<0){
      printf("error\n");
 }
 else
      printf("success\n");
 getcwd(buf2,1024);
 printf("%s\n",buf2);
 return 0;
zhangyumeng@zhangyumeng-virtual-machine:~/LInuxLab$ gedit c3.c
zhangyumeng@zhangyumeng-virtual-machine:~/LInuxLab$ gcc -o c3 c3.c
zhangyumeng@zhangyumeng-virtual-machine:~/LInuxLab$ ./c3
/home/zhangyumeng/LInuxLab
success
/home
```