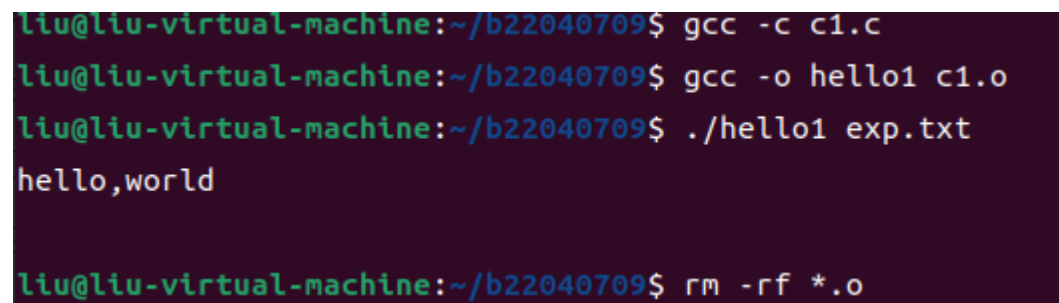


(1)

```
#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; }
```



A terminal window with a dark purple background and green text. The prompt is 'liu@liu-virtual-machine:~/b22040709\$'. The user enters 'gcc -c c1.c', then 'gcc -o hello1 c1.o', then './hello1 exp.txt', and finally 'rm -rf \*.o'. The output of the program is 'hello,world'.

```
liu@liu-virtual-machine:~/b22040709$ gcc -c c1.c
liu@liu-virtual-machine:~/b22040709$ gcc -o hello1 c1.o
liu@liu-virtual-machine:~/b22040709$ ./hello1 exp.txt
hello,world
liu@liu-virtual-machine:~/b22040709$ rm -rf *.o
```

(2)

```
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);
    // exit(0); }
```

```

liu@liu-virtual-machine:~/b22040709$ gcc -c c2.c
liu@liu-virtual-machine:~/b22040709$ gcc -o hello2 c2.o
liu@liu-virtual-machine:~/b22040709$ ./hello2 ~/b22040709
3.sh
backup.tar.gz
.
c2.c
hello1
exp.txt
4.sh
others
hello2
c3.c
5.sh
..
textfile.txt
1.sh
2.sh
c1.c
c2.o
liu@liu-virtual-machine:~/b22040709$

```

(3)

```

#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;  
}
```

```
liu@liu-virtual-machine:~/b22040709$ gcc -c c3.c  
liu@liu-virtual-machine:~/b22040709$ gcc -o hello3 c3.o  
liu@liu-virtual-machine:~/b22040709$ ./hello3 ~  
/home/liu/b22040709  
success  
/home  
liu@liu-virtual-machine:~/b22040709$
```