

(1) Task 1

C1.c:

```
#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;
}
```

Make1:

hello1:c1.o

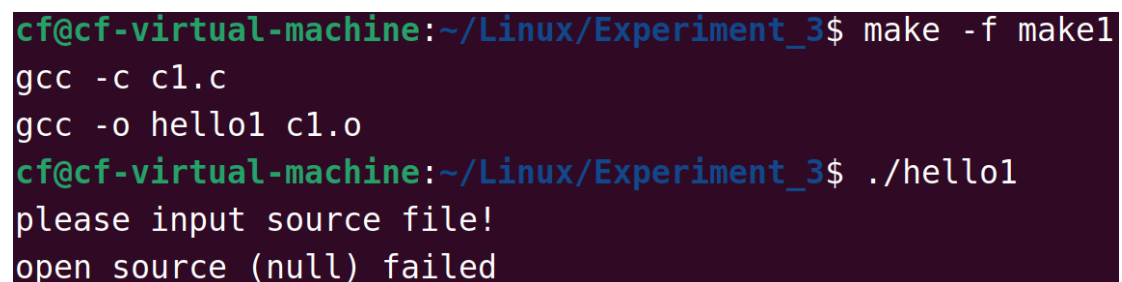
gcc -o hello1 c1.o

c1.o:c1.c

gcc -c c1.c

clean:

rm -rf *.o



```
cf@cf-virtual-machine:~/Linux/Experiment_3$ make -f make1
gcc -c c1.c
gcc -o hello1 c1.o
cf@cf-virtual-machine:~/Linux/Experiment_3$ ./hello1
please input source file!
open source (null) failed
```

(1) Task 2

C2.c:

```
#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);
}
Make1:
hello2:c2.o
    gcc -o hello1 c2.o
c2.o:c2.c
    gcc -c c2.c
clean:
    rm -rf *.o

```

```

cf@cf-virtual-machine:~/Linux/Experiment_3$ vim c2.c
cf@cf-virtual-machine:~/Linux/Experiment_3$ make -f make2
gcc -c c2.c
gcc -o hello1 c2.o
cf@cf-virtual-machine:~/Linux/Experiment_3$ ./hello1
段错误 (核心已转储)

```

(1) Task 3

C3.c:

```

#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;  
}
```

Make3:

hello3:c3.o

gcc -o hello1 c3.o

c3.o:c3.c

gcc -c c3.c

clean:

rm -rf *.o

```
cf@cf-virtual-machine:~/Linux/Experiment_3$ make -f make3
```

```
gcc -c c3.c
```

```
gcc -o hello1 c3.o
```

```
cf@cf-virtual-machine:~/Linux/Experiment_3$ ./hello1
```

```
/home/cf/Linux/Experiment_3
```

```
success
```

```
/home
```