(1) Task 1

```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;
}
```

```
user@ubantu-mn-desktop:~/Desktop$ gcc hello -o c1.c
hello: file not recognized: file format not recognized
collect2: error: ld returned 1 exit status
user@ubantu-mn-desktop:~/Desktop$ touch c1.c
user@ubantu-mn-desktop:~/Desktop$ gcc c1.c -o c1
user@ubantu-mn-desktop:~/Desktop$ ./c1
Please input source file!
user@ubantu-mn-desktop:~/Desktop$ touch test.txt
user@ubantu-mn-desktop:~/Desktop$ ./c1 test.txt
hello world
```

(2) Task 2

```
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);
}
```

```
user@ubantu-mn-desktop:~/Desktop$ gcc c2.c -o c2
user@ubantu-mn-desktop:~/Desktop$ mkdir docu
user@ubantu-mn-desktop:~/Desktop$ cd docu
user@ubantu-mn-desktop:~/Desktop/docu$ touch d1
user@ubantu-mn-desktop:~/Desktop/docu$ touch d2
user@ubantu-mn-desktop:~/Desktop/docu$ cd .
user@ubantu-mn-desktop:~/Desktop/docu$ cd ~
user@ubantu-mn-desktop:~$ cd Desktop
```

(3) Task 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;
}
```

```
user@ubantu-mn-desktop:~/Desktop$ touch c3.c
user@ubantu-mn-desktop:~/Desktop$ gcc c3.c -o c3
user@ubantu-mn-desktop:~/Desktop$ ./c3
/home/user/Desktop
success
/home
```