



Other test:

```
./copyfile.o
```

```
please enter the name of input file : in2.txt
please enter the name of output file : out.txt
input file does not exist!
cskt@cskt-VirtualBox:~/Desktop/os_linux/2.15$
```

If input file does not exist, abort

```
cskt@cskt-VirtualBox:~/Desktop/os_linux/2.15$ ./copyfile.o
please enter the name of input file : in.txt
please enter the name of output file : out.txt
output file exists!
cskt@cskt-VirtualBox:~/Desktop/os_linux/2.15$
```

If output file exist, abort

```
cskt@cskt-VirtualBox:~/Desktop/os_linux/2.15$ ./copyfile.o
please enter the name of input file : in.txt
please enter the name of output file : out2.txt
content successfully copied to output file
cskt@cskt-VirtualBox:~/Desktop/os_linux/2.15$
```

Otherwise, create a new output file

read and write the content from the input file to output file

Source code:

Acquire input & output file name.

If input file does not exist or output file exists, abort

```
24 int main(){
25     FILE *tmpptr; // use to check if file exists
26     char in_file[100], out_file[100]; // file name
27
28     // acquire input file name
29     printf("please enter the name of input file : ");
30     scanf("%s", in_file);
31     // acquire output file name
32     printf("please enter the name of output file : ");
33     scanf("%s", out_file);
34     // check if input file exists
35     if( (tmpptr=fopen(in_file, "r")) == NULL){
36         printf("input file does not exist!\n");
37         exit(0);
38     }
39     // check if output file exists
40     if( (tmpptr=fopen(out_file, "r")) != NULL){
41         printf("output file exists!\n");
42         exit(0);
43     }
44 }
```

Otherwise, open the input file to read and write the content to output file

If success, write completion message to screen

```
44     copy_content(in_file, out_file);
45     return 0;
```

```
4 void copy_content(char *in_file, char *out_file){
5     int ch; // store char that move from input file to output file
6     FILE *inptr = fopen(in_file, "r");
7     if(!inptr){
8         printf("cannot open input file!\n");
9         exit(0);
10    }
11    FILE *outptr = fopen(out_file, "w");
12    if(!outptr){
13        printf("cannot open output file!\n");
14        exit(0);
15    }
16    while((ch = fgetc(inptr)) != EOF){ // read from input file and write to output file
17        fputc(ch, outptr);
18    }
19    fclose(inptr);
20    fclose(outptr);
21    printf("content successfully copied to output file\n");
22 }
```