Premier University Chittagong

Department of Computer Science and Engineering

Course Title : Compiler Construction Lab

Course Code: CSE 454

Report No : 01

Report Title : Copying Contents from One C File to Another C file.

Submission Date: 13.07.2025

Submitted By

Name : Rayanul Kader Chowdhury Abid
ID : 210401020 2162
Semester : 8th A Section

Submitted To

Ms. Tanni Dhoom
Assistant Professor
Department of Computer Science and Engineering

Experiment No: 01

Experiment Name: Copying Contents from One C File to Another C file.

Objective: To write a C++ program that reads the contents from a source C file (`input.c`) and copies it into a destination file (`output.c`).

Algorithm:

1. Start the program.
2. Open the source file (`input.c`) using an input file stream.
3. Open the destination file (`output.c`) using an output file stream.
4. Read characters from the source file one by one using a loop.
5. Write each character to the destination file.
6. Repeat the process until the end of the source file is reached.
7. Close both the source and destination files.
8. End the program.

Code:

```
#include <bits/stdc++.h>

using namespace std;

int main() {
   ifstream inputFile("input.c");
   ofstream outputFile("output.c");


   char ch;
   while (inputFile.get(ch)) {
      outputFile.put(ch);
   }
   inputFile.close();
   outputFile.close();
   return 0;
}
```

Input:

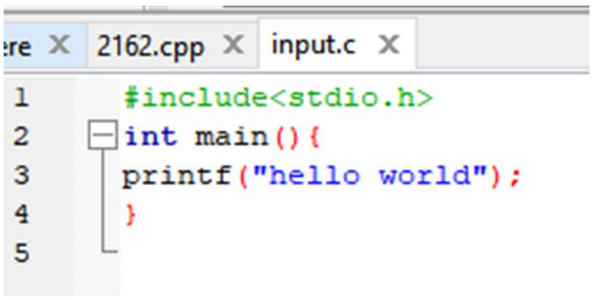

Figure 1.1: Input File

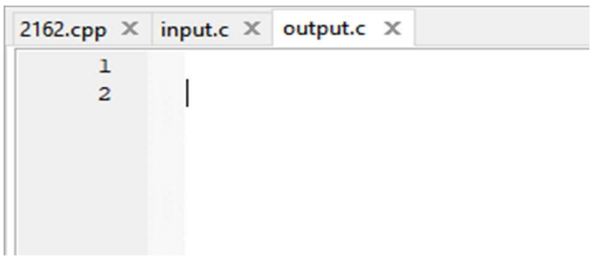

Figure 1.2: Output file before copying

Output:

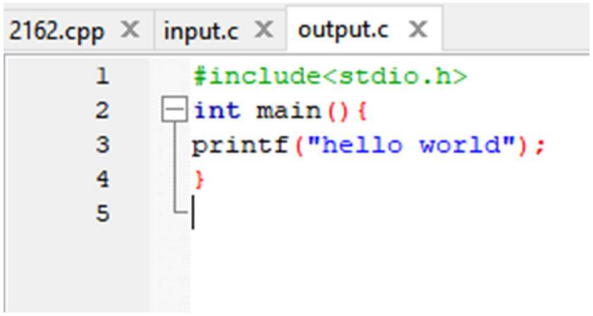

Figure 1.3: Output file with contents copied from input file

Discussion:

In this experiment, we demonstrated how to use file handling in C++ to copy the contents of one file to another. We used the ifstream class to open the source file in read mode and the ofstream class to open the destination file in write mode. The program reads each character using inputFile.get(ch) and writes it to the output file using outputFile.put(ch). After copying all the contents, we close both files to free up resources. This is a basic example of file I/O operations in C++, useful in various real-world applications such as file backup, editing, and content processing.