

Tutorial 10: File Operation in C++

Like Input/Output operation you need → iostream library.

Same way for file operation you required → **fstream** library.

***fstream**

Fstream library contains three important class, which are used to create, write or read files:

Class Description

ofstream Creates and writes to files (WRITE)

ifstream Reads from files (READ)

fstream ~~A combination of ofstream and ifstream: creates, reads, and writes to files (W+R)~~

Example:1

Write File operation (use either ofstream class).

```
#include<iostream>
```

```
#include<fstream>
```

fstream lib is required

```
using namespace std;
```

```
int main()
```

```
{
```

```
//Create object of file library and provide name
```

```
ofstream myfile("my_c_plus.txt");
```

```
//Pass info to file
```

```
myfile << "This sentence is written from C++ code Nice!!";
```

```

//close the file
myfile.close();

cout<< "Programm completed !!";

return 0;

}

```

NOTE : If you are using WRITE + READ both operation in same code, need to close file before starting new operation

It is considered good practice, and it can clean up unnecessary memory space.

Why close file ?? It is considered good practice, and it can clean up unnecessary memory space.

Read File

For read the file content, required **getline()** function from ifstream class.

```

#include<iostream>

#include<fstream> //Library for file handelling

using namespace std;

int main()

{
    //Create object of file library and file name which you want to read
    ifstream myfile("my_c_plus.txt");

    //Create variable to store data
    string data0;

    while(getline(myfile,data0)) //File name,where to store
    {

```

```
cout << data0;  
}  
//close the file  
myfile.close();  
  
cout << "Programm completed !!";  
return 0;  
}
```