

Exercise 14:

To construct a cpp program for creating, writing and reading files using fstream.

Source Code:

Creating a File

```
#include <iostream>
#include <fstream>
using namespace std;
int main() {
    fstream my_file;
    my_file.open("my_file", ios::out);
    if (!my_file) {
        cout << "File not created!";
    }
    else {
        cout << "File created successfully!";
        my_file.close();
    }
    return 0;
}
```

Writing a File

```
#include <iostream>
#include <fstream>
using namespace std;
int main() {
    fstream my_file;
    my_file.open("my_file.txt", ios::out);
    if (!my_file) {
        cout << "File not created!";
    }
    else {
        cout << "File created successfully!";
        my_file << "Hello we can write anything to the file here ☺";
        my_file.close();
    }
    return 0;
}
```

Reading from an existing file

```
#include <iostream>

#include <fstream>

using namespace std;

int main() {

    fstream my_file;

    my_file.open("my_file.txt", ios::in);

    if (!my_file) {

        cout << "No such file";

    }

    else {

        char ch;

        while (1) {

            my_file >> ch;

            if (my_file.eof())

                break;

            cout << ch;

        }

    }

    my_file.close();

    return 0;

}
```