

```
1 #include <iostream>
2 #include <fstream>
3
4 using namespace std;
5
6 void create_file();
7 void output_data();
8 void display_data();
9
10 const string FILE_PATH = "..\\Text-Files\\number-file.txt";
11
12 int main() {
13     create_file();
14     output_data();
15     display_data();
16     return 0;
17 }
18
19 void create_file() {
20     ofstream new_file{FILE_PATH};
21     if (!new_file.is_open()){
22         cout << "File not opened" << endl;
23         exit(EXIT_FAILURE);
24     }
25     new_file.close();
26 }
27
28 void output_data() {
29     ofstream output_file {FILE_PATH};
30     int count{1};
31     cout << "Saving data to file" << endl;
32     for (int x = 1; x <= 100; x++) {
33         output_file << x << endl;
34         if (x == 100) { break; }
35         count++;
36     }
37     cout << "Data saved: " << sizeof(count) << endl;
38     output_file.close();
39 }
40
41 void display_data() {
42     ifstream input_file{FILE_PATH};
43     int sum {0};
44     if (!input_file.is_open()) {
45         cout << "The file could not be opened" << endl;
46         exit(EXIT_FAILURE);
47     }
48     cout << "\n Displaying data: " << endl;
49     string value;
50     while (input_file >> value) {
51         cout << value << " ";
52         sum += stoi(value);
53     }
54     cout << "\nTotal is: " << sum << endl;
55
56     input_file.close();
57 }
58
59
```