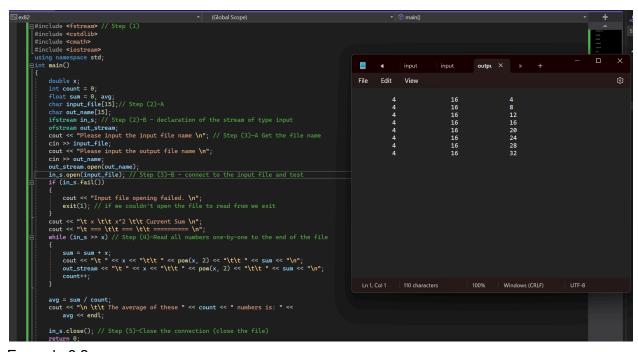
```
#include <fstream> // Step (1)
#include <cstdlib>
#include <cmath>
#include <cinstream>
using namespace std;
pint main()
                                                                                                                                                                                           Microsoft Visual Studio Debu<sub>!</sub> × + v
                                                                                                                                                                                         Please input the input file name
        double x;
int count = 0;
float sum = 0, avg;
char input.file[15]; // Step (2)-A
ifstream in_s; // Step (2)-B - declaration of the stream of type input
cout << "Please input the input file name \n"; // Step (3)-A Get the file name
cin >> input.file;
in_s.open(input.file); // Step (3)-B - connect to the input file and test
if (in_s.fail())
{
                                                                                                                                                                                         input.txt
                                                                                                                                                                                                                                                                                       Current Sum
                                                                                                                                                                                                                                                   ===
16
                                                                                                                                                                                                                                                  16
16
16
16
16
                                                                                                                                                                                                                                                                                       8
12
16
20
24
28
32
               cout << "Input file opening failed. \n";
exit(1); // if we couldn't open the file to read from we exit</pre>
                                                                                                                                                                                                                                                   16
        cout << "\t x \t\t x^2 \t\t Current Sum \n";
cout << "\t === \t\t ===-==== \n";
while (in_s >> x) // Step (4)-Read all numbers one-by-one to the end of the file
                                                                                                                                                                                                                                The average of these 8 numbers is: 4
                                                                                                                                                                                         C:\Users\LOVE4\source\repos\ex81\x64\Debug\ex81.exe (proce
                                                                                                                                                                                         Press any key to close this window . . .
        cum = sum + x;
cout << "\t " << x << "\t\t " << pow(x,2) << "\t\t " << sum << "\n";
count++;
        }
avg = sum / count;
cout << "\n \t\t The average of these " << count << " numbers is: " <<
   avg << endl;
in_s.close(); // Step (5)-Close the connection (close the file)
return 0;</pre>
```

Example 8.1



Example 8.2

## Example 8.3

