PROBLEM STATEMENT:

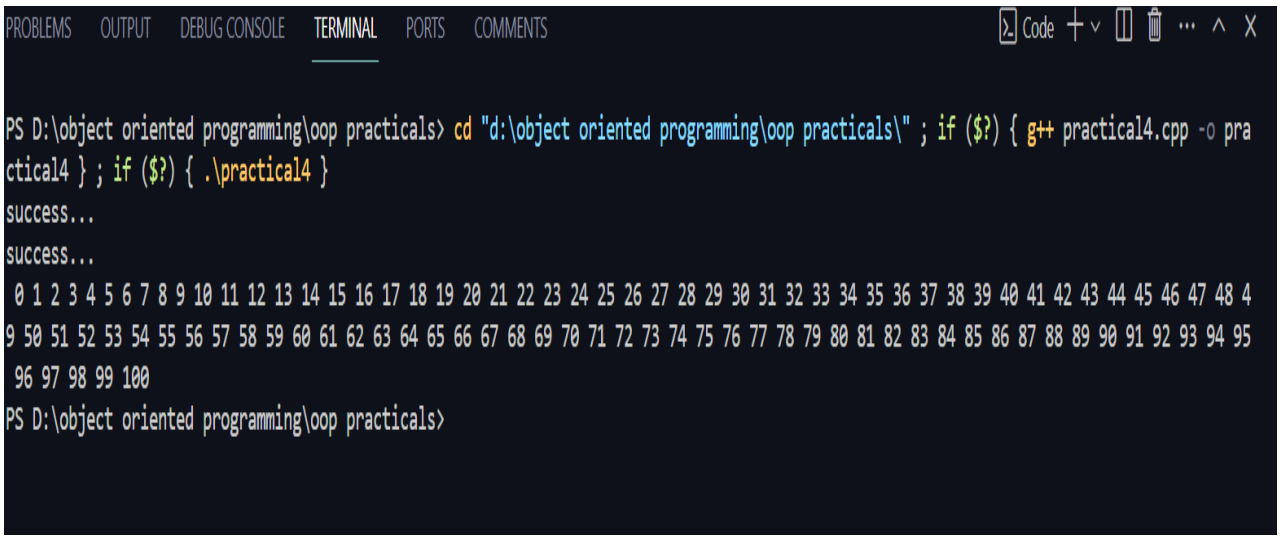
Write a C++ program that creates an output file, writes information to it, closes the file, open it again as an input file and read the information from the file.

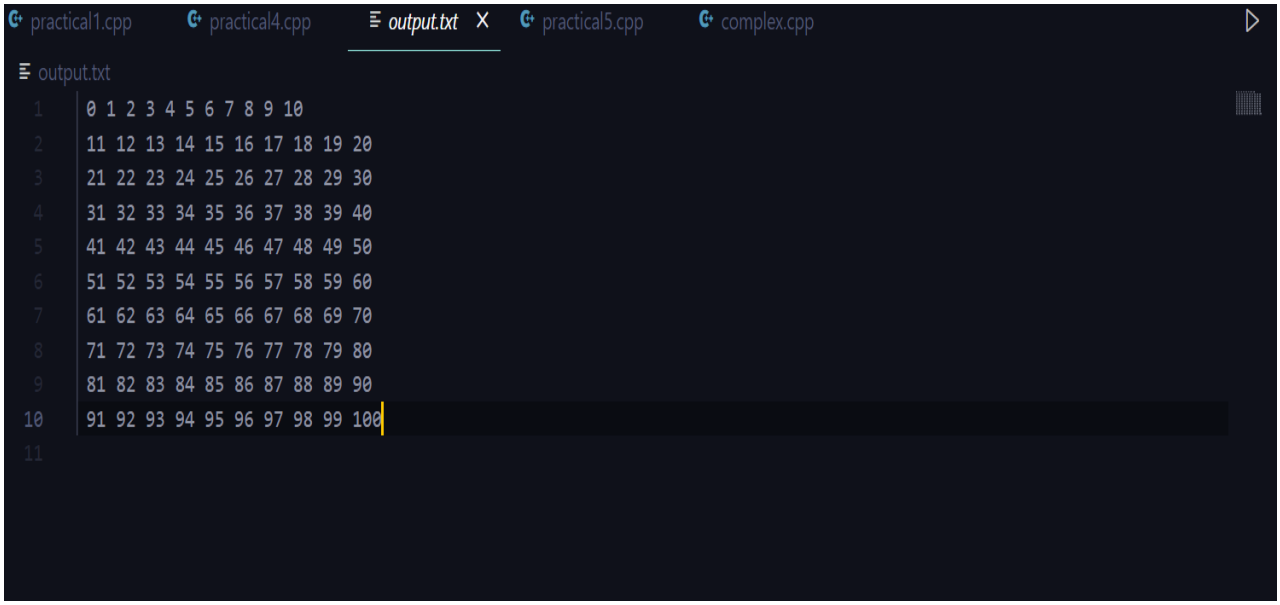
PROGRAM/SOURCE CODE:

```
#include <iostream>
using namespace std;
#include <fstream>
class FileOperations
{
public:
  void writeDataToFile(string filename)
  {
    ofstream ofs(filename);
    if (ofs.is_open())
    {
      cout << "success..." << endl;
      for (int i = 0; i <= 100; i++)
      {
        if (i % 10 == 0 && i > 0)
        {
          ofs << " " << i << "\n";
          continue;
        }

        ofs << " " << i;
      }
    }
    else
    {
      cout << "failure..." << endl;
```

```
        }
        ofs.close();
    }
    void readFromFile(string filename)
    {
        ifstream ifs(filename);
        if (ifs.is_open())
        {
            string ipline;
            cout << "success..." << endl;
            while (getline(ifs, ipline))
            {
                cout << ipline;
            }
        }
        else
        {
            cout << "failure..." << endl;
        }
        ifs.close();
    }
};

int main()
{
    FileOperations fop;
    fop.writeDataToFile("output.txt");
    fop.readFromFile("output.txt");
    return 0;
}
```

OUTPUT:


PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS
Code
PS D:\object oriented programming\oop practicals> cd "d:\object oriented programming\oop practicals\" ; if ($?) { g++ practical4.cpp -o practical4 } ; if ($?) { .\practical4 }
success...
success...
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
PS D:\object oriented programming\oop practicals>


practical1.cpp
practical4.cpp
output.txt
practical5.cpp
complex.cpp
output.txt
1 0 1 2 3 4 5 6 7 8 9 10
2 11 12 13 14 15 16 17 18 19 20
3 21 22 23 24 25 26 27 28 29 30
4 31 32 33 34 35 36 37 38 39 40
5 41 42 43 44 45 46 47 48 49 50
6 51 52 53 54 55 56 57 58 59 60
7 61 62 63 64 65 66 67 68 69 70
8 71 72 73 74 75 76 77 78 79 80
9 81 82 83 84 85 86 87 88 89 90
10 91 92 93 94 95 96 97 98 99 100
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