

REPORT

PROBLEM

- Prompt the user for rows/columns
- Collect table data from the user
- Generate a .html file
- Store the file in a folder

CODE

```
#include <iostream>
#include <fstream>
#include <string>
using namespace std;

int main() {
    int rows, cols;
    cout << "Enter number of rows: ";
    cin >> rows;
    cout << "Enter number of columns: ";
    cin >> cols;

    string** data = new string * [rows];
    for (int i = 0; i < rows; i++)
        data[i] = new string[cols];

    cout << "Enter table data row by row:\n";
    for (int i = 0; i < rows; i++) {
        for (int j = 0; j < cols; j++) {
            cout << "Row " << i + 1 << ", Column " << j + 1 << ": ";
            cin >> ws;
            getline(cin, data[i][j]);
        }
    }

    ofstream html("C:\\Users\\HH Traders\\Desktop\\GeneratedTable.html");
    html << "<!DOCTYPE html>\n<html>\n<head>\n<style>\n"
        << "table { border-collapse: collapse; width: 100%; }"
        << "td, th { border: 1px solid #dddddd; padding: 8px; }"
        << "tr:nth-child(even) { background-color: #f2f2f2; }"
        << "</style>\n</head>\n<body>\n"
        << "<h2>Generated Table</h2>\n<table>\n";

    for (int i = 0; i < rows; i++) {
```

```

        html << "<tr>";
        for (int j = 0; j < cols; j++) {
            html << "<td>" << data[i][j] << "</td>";
        }
        html << "</tr>\n";
    }

    html << "</table>\n</body>\n</html>";
    html.close();

    cout << "HTML file created on Desktop.\n";

    for (int i = 0; i < rows; i++)
        delete[] data[i];
    delete[] data;

    return 0;
}

```

GENERATED HTML CODE

```

<!DOCTYPE html>
<html>
<head>
<style>
table { border-collapse: collapse; width: 100%; }td, th { border: 1px solid #dddddd; padding:
8px; }tr:nth-child(even) { background-color: #f2f2f2; }</style>
</head>
<body>
<h2>Generated Table</h2>
<table>
<tr><td>1</td><td>2</td><td>2</td><td>4</td><td>7</td></tr>
<tr><td>8</td><td>0</td><td>9</td><td>3</td><td>5</td></tr>
<tr><td>7</td><td>6</td><td>8</td><td>6</td><td>5</td></tr>
<tr><td>3</td><td>2</td><td>1</td><td>5</td><td>4</td></tr>
<tr><td>6</td><td>7</td><td>8</td><td>9</td><td>0</td></tr>
</table>
</body>
</html>

```

After collecting input data from the user, the program successfully generated an HTML file. Opening this file in a browser displays the table dynamically based on the user input — simulating a basic web page generation from C++