

Bushra Fatima

Computer and Information Sciences

Internet Application Development

LAB Number: 01

Question Number: 01

```
#include <iostream>
```

```
#include <fstream>
```

```
#include <vector>
```

```
#include <string>
```

```
using namespace std;
```

```
int main() {
```

```
    int rows, cols;
```

```
    cout << "Enter number of rows: ";
```

```
    cin >> rows;
```

```
    cout << "Enter number of columns: ";
```

```
    cin >> cols;
```

```
    vector<vector<string>> table(rows, vector<string>(cols));
```

```
    cout << "\nEnter data for the table:\n";
```

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

```

for (int j = 0; j < cols; ++j) {

    cout << "Enter data for cell [" << i+1 << "][" << j+1 << "]: ";

    cin >> ws;

    getline(cin, table[i][j]);

}

}

```

```

string html = "<!DOCTYPE html>\n<html>\n<head>\n<title>HTML Table</title>\n";

html += "<style>table { border-collapse: collapse; width: 80%; } ";

html += "th, td { border: 1px solid black; padding: 8px; text-align: left; } ";

html += "tr:nth-child(even) { background-color: #f2f2f2; }</style>\n</head>\n<body>\n";

html += "<h2>HTML Table</h2>\n<table>\n";

```

```

html += "<tr>";

for (int j = 0; j < cols; ++j) {

    html += "<th>" + table[0][j] + "</th>";

}

html += "</tr>\n";

```

```

for (int i = 1; i < rows; ++i) {

    html += "<tr>";

    for (int j = 0; j < cols; ++j) {

        html += "<td>" + table[i][j] + "</td>";

    }

}

```

```
        html += "</tr>\n";
    }

    html += "</table>\n</body>\n</html>";

    string filePath = "C:\\Users\\Whizz\\OneDrive - Higher Education Commission\\6th
Sem\\IAD\\Practice\\Lab_01\\TableCreated.html";

    ofstream file(filePath);

    if (file.is_open()) {

        file << html;

        file.close();

        cout << "\nHTML table has been saved successfully to:\n" << filePath << endl;

    } else {

        cerr << "Error: Could not save HTML file.\n";

    }

    return 0;
}
```

