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// Programmer: Duncan McFarlane
// Date: 01/21/2020
// Compiler Used: MS Visual C++ 2017
// Purpose: First Program in C++.

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

int main() {

    // First Program
    cout << "Hello World!" << endl;
    cout << endl;

    // Excercise 1.1 (Display three messages)
    string welcomeMsg = "Welcome to C++";
    cout << welcomeMsg << endl;
    cout << "Welcome to Computer Science" << endl;
    cout << "Programming is fun" << endl;
    cout << endl;

    // Excercise 1.2 (Display five messages)
    cout << welcomeMsg << endl;
    cout << welcomeMsg << endl;
    cout << welcomeMsg << endl;
    cout << welcomeMsg << endl;
    cout << welcomeMsg << endl;
    cout << endl;

    // Excercise 1.3 (Display a pattern)
    cout << "  CCCC      +      +  " << endl;
    cout << "  C      +      +  " << endl;
    cout << "  C      ++++++  ++++++" << endl;
    cout << "  C      +      +  " << endl;
    cout << "  CCCC      +      +  " << endl;
    cout << endl;

    // Indicates that program completed sucessfully
    return 0;
}

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Hello World!
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Welcome to C++
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Welcome to Computer Science
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Programming is fun
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Welcome to C++
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Welcome to C++
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Welcome to C++
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Welcome to C++
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Welcome to C++
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```
  CCCC      +      +  
C          +      +  
C          +++++++ +++++++  
C          +      +  
  CCCC      +      +
```