

Write a program in C++ to use map associative container. The keys will be the names of states and the values will be the populations of the states. When the program runs, the user is prompted to type the name of a state. The program then looks in the map, using the state name as an index and returns the population of the state.

Program-

```
#include <iostream>
#include <map>
#include <string>

using namespace std;

int main() {
    // Initialize a map with state names as keys and populations as values
    map<string, int> statePopulations;

    // Adding data to the map (you can extend this as needed)
    statePopulations["California"] = 39538223;
    statePopulations["Texas"] = 29145505;
    statePopulations["Florida"] = 21538187;
    statePopulations["New York"] = 20201249;
    statePopulations["Pennsylvania"] = 13002700;
    statePopulations["Illinois"] = 12812508;

    // Prompt the user to enter a state name
    string stateName;
    cout << "Enter the name of a state: ";
    getline(cin, stateName); // Using getline to allow spaces in the state name

    // Search for the state in the map
    auto it = statePopulations.find(stateName);

    // Check if the state was found in the map
    if (it != statePopulations.end()) {
        cout << "The population of " << stateName << " is " << it->second << "." << endl;
    } else {
        cout << "State not found!" << endl;
    }

    return 0;
}
```