C2] 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. Link\*\*\*

https://www.programiz.com/online-compiler/02Ex1JWVqfDH0

#include <iostream>

#include <map>

#include <string>

using namespace std;

int main() {

// Create a map to hold states and their populations

map<string, long> statePopulation;

// Initialize the map with some state populations

statePopulation["California"] = 39538223;

statePopulation["Texas"] = 29145505;

statePopulation["Florida"] = 21538187;

statePopulation["New York"] = 20201249;

statePopulation["Pennsylvania"] = 13002700;

statePopulation["Illinois"] = 12812508;

statePopulation["Ohio"] = 11799448;

statePopulation["Georgia"] = 10711908;

statePopulation["North Carolina"] = 10439388;

statePopulation["Michigan"] = 10077331;

string stateName;

// Prompt the user to enter a state name

cout << "Enter the name of a state: ";

getline(cin, stateName); // Use getline to allow spaces in state names

// Look for the state in the map

auto it = statePopulation.find(stateName);

if (it != statePopulation.end()) {

cout << "The population of " << stateName << " is " << it->second << "." << endl;

} else {

cout << "State not found in the database." << endl;

}

return 0;

}