prog7.cpp

```cpp
1   #include <iostream>
2   #include <map>
3   #include <string>
4   #include <utility>
5
6   using namespace std;
7
8   int main()
9   {
10      typedef map<string,int> mapType;
11      mapType populationMap;
12
13      populationMap.insert(pair<string, float>("Maharashtra", 125));
14      populationMap.insert(pair<string, float>("Uttar Pradesh", 225));
15      populationMap.insert(mapType::value_type("Bihar", 120));
16      populationMap.insert(mapType::value_type("West Bengal", 100));
17      populationMap.insert(make_pair("Madhya Pradesh", 90));
18      populationMap.insert(make_pair("Tamil Nadu", 80));
19      populationMap.insert(make_pair("Rajasthan", 78));
20      populationMap.insert(make_pair("Andhra Pradesh", 53));
21      populationMap.insert(make_pair("Odisha", 47));
22      populationMap.insert(make_pair("Kerala", 38));
23      populationMap.insert(make_pair("Telangana", 37));
24      populationMap.insert(make_pair("Assam", 35));
25      populationMap.insert(make_pair("Jharkhand", 38));
26      populationMap.insert(make_pair("Karnataka", 68));
27      populationMap.insert(make_pair("Gujarat", 70));
28      populationMap.insert(make_pair("Punjab", 31));
29      populationMap.insert(make_pair("Chhattisgarh", 30));
30      populationMap.insert(make_pair("Haryana", 29));
31      populationMap.insert(make_pair("UT Delhi", 19));
32      populationMap.insert(make_pair("UT Jammu and Kashmir", 14));
33      populationMap.insert(make_pair("Uttarakhand", 12));
34      populationMap.insert(make_pair("Himachal Pradesh", 8));
35      populationMap.insert(make_pair("Tripura", 04));
36      populationMap.insert(make_pair("Meghalaya", 4));
37      populationMap.insert(make_pair("Manipur[", 3));
38      populationMap.insert(make_pair("Nagaland", 2));
39      populationMap.insert(make_pair("Goa", 2));
40      populationMap.insert(make_pair("Arunachal Pradesh", 2));
41      populationMap.insert(make_pair("UT Puducherry", 2));
42      populationMap.insert(make_pair("Mizoram", 1));
43      populationMap.insert(make_pair("UT Chandigarh", 1));
44      populationMap.insert(make_pair("Sikkim", 1));
45      populationMap.insert(make_pair("UT Dadra and Nagar Haveli and Daman and Diu", 1));
46      populationMap.insert(make_pair("UT Andaman and Nicobar Islands", 1));
47      populationMap.insert(make_pair("UT Lakshadweep", 0.0003));
48      populationMap.insert(make_pair("UT Ladakh", 0.00006));
49
50      mapType::iterator iter = --populationMap.end();
51      populationMap.erase(iter);
52
53      cout << "Total state and UT of India with Size of populationMap: " << populationMap.size()
```

```cpp
            << '\n';

    for (iter = populationMap.begin(); iter != populationMap.end(); ++iter)
    {
     cout << iter->first <<":" << iter->second << " million\n";
    }

    char c;
    do
    {
        string state;
        cout<<"\nEnter that state you want to know the population of: ";
        cin>>state;
        iter = populationMap.find(state);
        if( iter != populationMap.end() )
            cout << state <<"'s populations is "
                << iter->second << " million\n";
        else
            cout << "State is not in populationMap" << '\n';

        cout<<"Do you wish to continue?(y/n):";
        cin>>c;
    }while(c=='y'||c=='Y');

    populationMap.clear();

    return 0;
}
```