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Assignment No:- 7

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Subject:- OOP

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#include <iostream>

#include <map>

#include <string>

#include <utility>

using namespace std;

int main()

{

typedef map<string,int> mapType;

mapType populationMap;

populationMap.insert(pair<string, float>("Maharashtra", 125));

populationMap.insert(pair<string, float>("Uttar Pradesh", 225));

populationMap.insert(mapType::value\_type("Bihar", 120));

populationMap.insert(mapType::value\_type("West Bengal", 100));

populationMap.insert(make\_pair("Madhya Pradesh", 90));

populationMap.insert(make\_pair("Tamil Nadu", 80));

populationMap.insert(make\_pair("Rajasthan", 78));

populationMap.insert(make\_pair("Andhra Pradesh", 53));

populationMap.insert(make\_pair("Odisha", 47));

populationMap.insert(make\_pair("Kerala", 38));

populationMap.insert(make\_pair("Telangana", 37));

populationMap.insert(make\_pair("Assam", 35));

populationMap.insert(make\_pair("Jharkhand", 38));

populationMap.insert(make\_pair("Karnataka", 68));

populationMap.insert(make\_pair("Gujarat", 70));

populationMap.insert(make\_pair("Punjab", 31));

populationMap.insert(make\_pair("Chhattisgarh", 30));

populationMap.insert(make\_pair("Haryana", 29));

populationMap.insert(make\_pair("UT Delhi", 19));

populationMap.insert(make\_pair("UT Jammu and Kashmir", 14));

populationMap.insert(make\_pair("Uttarakhand", 12));

populationMap.insert(make\_pair("Himachal Pradesh", 8));

populationMap.insert(make\_pair("Tripura", 04));

populationMap.insert(make\_pair("Meghalaya", 4));

populationMap.insert(make\_pair("Manipur[", 3));

populationMap.insert(make\_pair("Nagaland", 2));

populationMap.insert(make\_pair("Goa", 2));

populationMap.insert(make\_pair("Arunachal Pradesh", 2));

populationMap.insert(make\_pair("UT Puducherry", 2));

populationMap.insert(make\_pair("Mizoram", 1));

populationMap.insert(make\_pair("UT Chandigarh", 1));

populationMap.insert(make\_pair("Sikkim", 1));

populationMap.insert(make\_pair("UT Dadra and Nagar Haveli and Daman and

Diu", 1));

populationMap.insert(make\_pair("UT Andaman and Nicobar Islands", 1));

populationMap.insert(make\_pair("UT Lakshadweep", 0.0003));

populationMap.insert(make\_pair("UT Ladakh", 0.00006));

mapType::iterator iter = --populationMap.end();

populationMap.erase(iter);

cout << "Total state and UT of India with Size of populationMap: " <<

populationMap.size() << '\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;

}