

## Assignment NO 7

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.

```
#include<iostream>
#include<map>
#include<string>
using namespace std;
int main()
{
    typedef map<string,int> mapType;
    mapType populationMap;
    populationMap.insert(pair<string, int>("Maharashtra", 7026357));
    populationMap.insert(pair<string, int>("Rajasthan", 6578936));
    populationMap.insert(pair<string, int>("Karanataka", 6678993));
    populationMap.insert(pair<string, int>("Punjab", 5789032));
    populationMap.insert(pair<string, int>("West Bengal", 6676291));
    mapType::iterator iter;
    cout<<"====Population of states in India====\n";
    cout<<"\n Size of populationMap"<<populationMap.size()<<"\n";
    string state_name;
    cout<<"\n Enter name of the state :";
    cin>>state_name;
    iter = populationMap.find(state_name);
    if( iter!= populationMap.end() )
        cout<<state_name<<" 's population is "
        <<iter->second ;
    else
        cout<<"Key is not populationMap"<<"\n";
    populationMap.clear();
}
```

Output:

```
====Population of states in India=====
```

```
Size of populationMap5
```

```
Enter name of the state :Punjab
Punjab 's population is 5789032
```

---

```
#include <iostream>
```

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

using namespace std;

int main() {
    string ch;

    map < string, long int > state;

    state = {
        {
            "Andhra Pradesh",
            49577103
        },
        {
            "Assam",
            31205576
        },
        {
            "Arunachal Pradesh",
            1383727
        },
        {
            "Bihar",
            104099452
        },
        {
            "Chhattisgarh",
            25545198
        },
        {
            "Goa",
            1458545
        },
        {
            "Gujarat",
            60439692
        },
        {
            "Haryana",
            25351462
        },
        {
            "Himachal Pradesh",
            6864602
        },
    },
```

```
{
  "Jharkhand",
  32988134
},
{
  "Karnataka",
  61095297
},
{
  "Kerala",
  33406061
},
{
  "Madhya Pradesh",
  72626809
},
{
  "Maharashtra",
  112374333
},
{
  "Manipur",
  2570390
},
{
  "Meghalaya",
  2966889
},
{
  "Mizoram",
  1097206
},
{
  "Nagaland",
  1978502
},
{
  "Odisha",
  41974219
},
{
  "Punjab",
  27743338
},
{
  "Rajasthan",
  68548437
}
```

```

    },
    {
        "Sikkim",
        610577
    },
    {
        "Tamil Nadu",
        72147030
    },
    {
        "Telangana",
        35003674
    },
    {
        "Tripura",
        3673917
    },
    {
        "Uttarakhand",
        10086292
    },
    {
        "Uttar Pradesh",
        199812341
    },
    {
        "West Bengal",
        91276115
    },
};

```

```

cout << "Enter State (in capital camel case e.g-'Tamil Nadu')< endl;
cin >> ch;
cout << "Population of " << ch << " is " << state[ch] << endl;

```

```

return 0;
}

```

Output:

```

Enter State (in capital camel case e.g-'Tamil Nadu')
Odisha
Population of Odisha is 41974219

```