

GROUP C:ASSIGNMENT NO.07

NAME:SHRUTI MUKUND PAWAR

CLASS:SE(C)

BATCH:C1

ROLL NO:S21003

SUBJECT:OOP

PROBLEM STATEMENT:

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.

CODE:

```
#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 population Map "<<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 population of Map"<<"\n";
    populationMap.clear();
}
}

```

INPUT & OUTPUT:

```

d-comp-msl-18@dcompmsl18-OptiPlex-3070:~/Desktop$ g++ oop.cpp -o abc
d-comp-msl-18@dcompmsl18-OptiPlex-3070:~/Desktop$ ./abc
====Population of states in India====

Size of population Map 5

Enter name of the state : Punjab
Punjab 's population is 5789032d-comp-msl-18@dcompmsl18-OptiPlex-3070:~/Desktop$ █

```