Name: Srushti Bibhishan Vhare

Class: SE -I Div:D

Roll No:205A081

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",555555));
   populationmap.insert(pair<string,int>("Rajasthan",1111111));
   populationmap.insert(pair<string,int>("Karnataka",2222222));
   populationmap.insert(pair<string,int>("Punjab",333333));
   populationmap.insert(pair<string,int>("Bengal",444444));
   maptype::iterator iter;
   string state name;
   cout << "\n****** Popultion Of State In India *******";
   cout<<"\nSize Of PopulationMap :"<<populationmap.size();</pre>
   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 << "\nkey Is Not In PopulationMap" << "\n";
     populationmap.clear();
   }
}
```

## **Output:**

```
Assignment7.cpp
                                                                                                                                   <u>S</u>ave ≡ _ _ □
  Assignment5.cpp
                                                                       Assignment6.cpp
                                                                                                                            Assignment7.cpp
 1 #include < iostream >
 2 #include<map>
 3 #include<string>
 4 using namespace std;
 5 int main()
 6 {
          typedef map<string,int> maptype;
 8
          maptype populationmap;
 9
          populationmap.insert(pair<string,int>("Maharashtra",5555555));
         populationmap.insert(pair<string,int>("Rajasthan",1111111));
populationmap.insert(pair<string,int>("Karnataka",2222222));
populationmap.insert(pair<string,int>("Punjab",333333));
populationmap.insert(pair<string,int>("Bengal",444444));
populationmap.insert(pair<string,int>("Bengal",444444));
10
11
12
13
14
          maptype::iterator iter;
15
          string state_name;
          cout<<"\n*******Popultion Of State In India *******";</pre>
16
          cout<<"\nSize Of PopulationMap :"<<pre>populationmap.size();
17
18
          cout<<"\n Enter Name Of The State :";</pre>
19
          cin>>state name;
20
          iter=populationmap.find(state_name);
          if(iter != populationmap.end())
21
22
23
                 cout<<state_name<<"'s population is"<<iter->second;
24
          }
25
          else
26
          {
27
               cout<<"\nkey Is Not In PopulationMap"<<"\n";</pre>
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```

