OOP Assignment - 09
Associative Container Map

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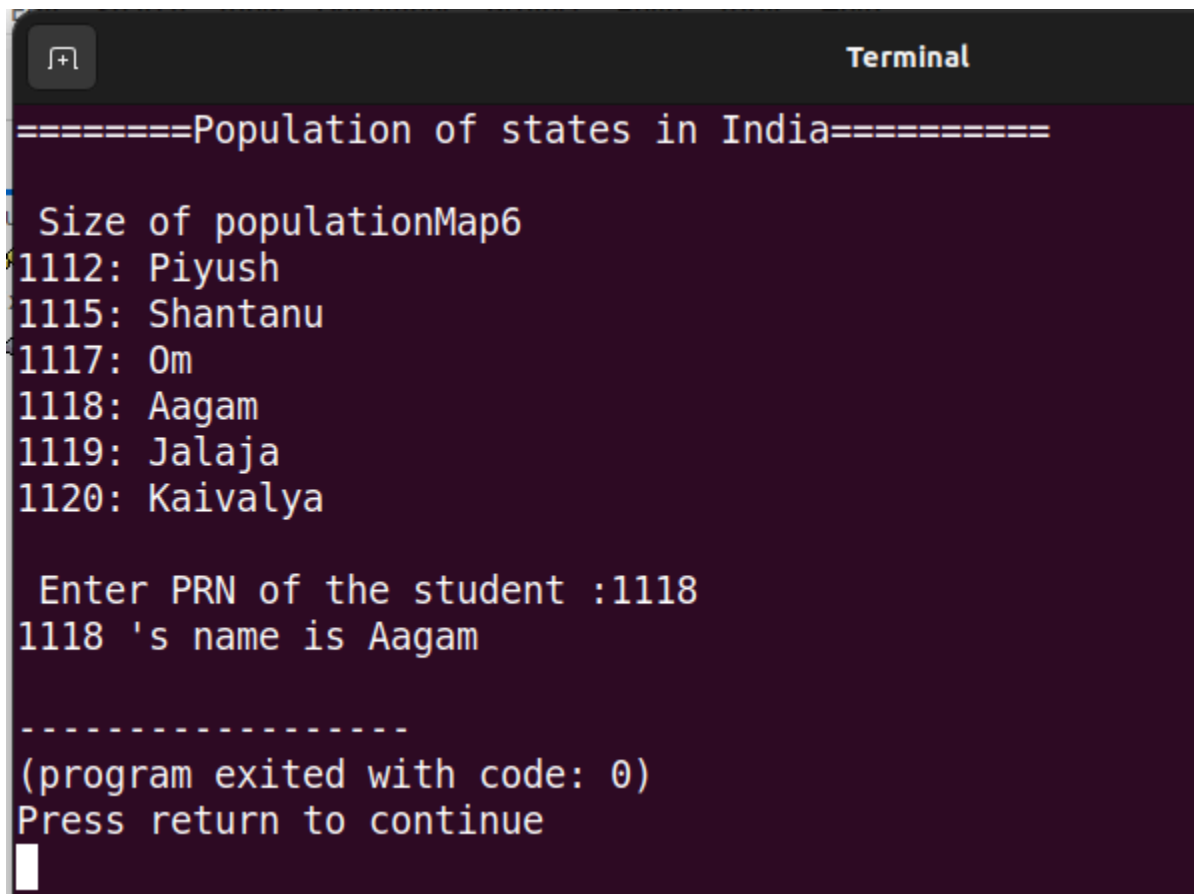Division: SY - BTech-II   Batch: C

Problem Statement-: Implement a map associative container in which the keys will be the Permanent Registration Number (PRN) of the students and the values will be the name of the respective student. Develop a program that prompts the user for PRN and then it looks in the map, using the PRN as an index and returns the name of the student.

CODE

```cpp
#include <iostream>
#include <map>
#include <string>
using namespace std;
int main()
{
typedef map <int,string> mapType;
mapType populationMap;
populationMap.insert(pair<int,string>(1118,"Aagam"));
populationMap.insert(pair<int, string>(1120, "Kaivalya"));
populationMap.insert(pair<int, string>(1112, "Piyush"));
populationMap.insert(pair<int, string>(1115, "Shantanu"));
populationMap.insert(pair<int, string>(1117, "Om"));
populationMap.insert(pair<int, string>(1119, "Jalaja"));
mapType::iterator iter;
cout<<"========Population of states in India=========\n";
cout<<"\n Size of populationMap"<<populationMap.size()<<"\n";
for (iter = populationMap.begin(); iter != populationMap.end(); iter++) {
cout << iter->first <<": "<< iter->second<<"\n";
}
int PRN;
cout<<"\n Enter PRN of the student :";
cin>>PRN;
iter = populationMap.find(PRN);
if( iter!= populationMap.end() )
```

```
cout<<PRN <<" 's name is " <<iter->second ;
else
cout<<"Key is not populationMap"<<"\n";
populationMap.clear();
}
```

OUTPUT