ASSIGNMENT OOPS 9

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/*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.*/

PROGRAM:

```
#include <iostream>
#include <map>
using namespace std;

int main() {
    map<int, string> populationMap;
    populationMap[1234] = "Amit XYZ";
    populationMap[2222] = "Rahul";
    populationMap[3333] = "Shweta";
    populationMap[4444] = "Aditi";
    populationMap[9999] = "Pooja";
    populationMap[7777] = "Ketaki";

    cout << "======== Student List =========\n";
    cout << "Size of map: " << populationMap.size() << "\n";

    for (auto iter = populationMap.begin(); iter != populationMap.end(); ++iter)
        cout << iter->first << " : " << iter->second << "\n";

    int PRN;
    cout << "\nEnter PRN of student: ";
    cin >> PRN;
```

```cpp
    auto iter = populationMap.find(PRN);
    if (iter != populationMap.end())
        cout << PRN << "'s name is " << iter->second << "\n";
    else
        cout << "PRN not found!\n";

    return 0;
}
```
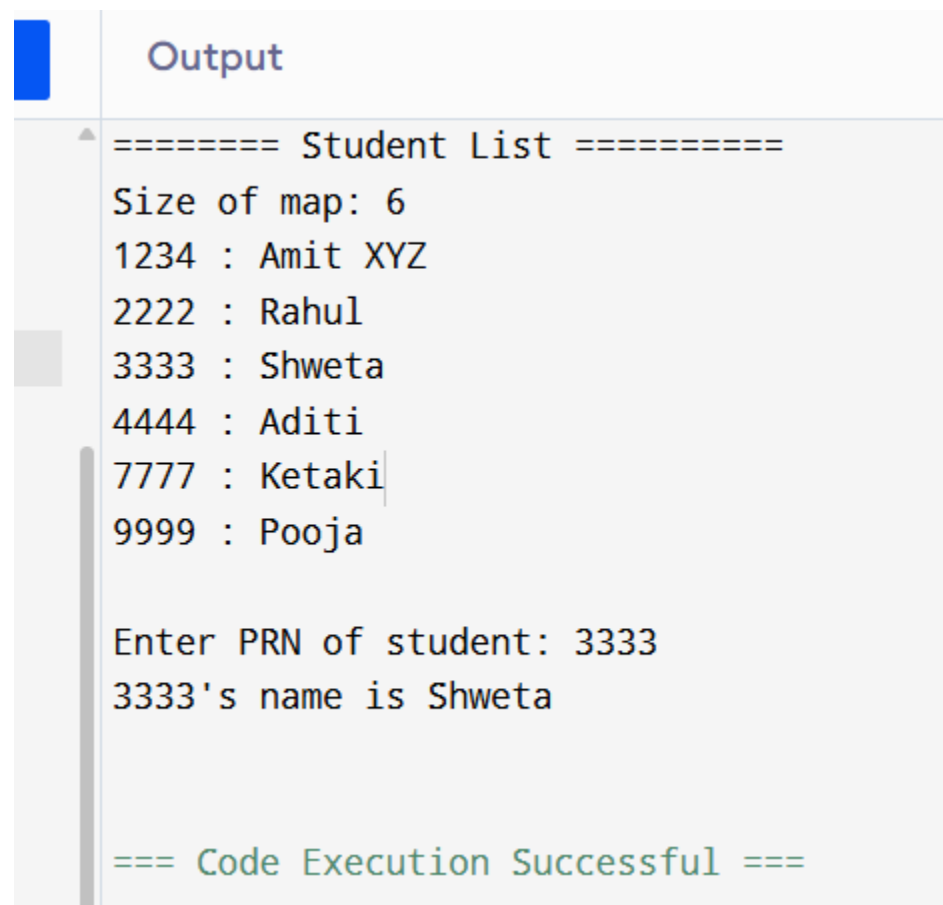
OUTPUT:

```
======== Student List ==========
Size of map: 6
1234 : Amit XYZ
2222 : Rahul
3333 : Shweta
4444 : Aditi
7777 : Ketaki
9999 : Pooja

Enter PRN of student: 3333
3333's name is Shweta


=== Code Execution Successful ===
```

GITHUB: