Assignment-9

```
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```

/*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.

```
*/
#include <iostream>
#include <map>
#include <string>
using namespace std;
int main() {
  //making a map where key is PRN, value is student name
  map<long long, string> studentMap;
  int n;
  cout << "Enter number of students: ";
  cin >> n;
  //I/P PRN and name of the students
  for (int i = 0; i < n; i++) {
     long long prn;
     string name;
     cout << "Enter PRN of student " << i + 1 << ": ";
     cin >> prn;
     cout << "Enter name of student " << i + 1 << ": ";
     cin.ignore();
     getline(cin, name);
     studentMap[prn] = name;
  }
  cout << "\nStudent data stored successfully!\n";</pre>
  //student's name using PRN
  long long searchPRN;
  cout << "\nEnter PRN to search: ";
```

```
cin >> searchPRN;
  //Search using find()
  auto it = studentMap.find(searchPRN);
  if (it != studentMap.end()) {
    cout << "Student Name: " << it->second << endl;</pre>
    cout << "No student found with PRN " << searchPRN << endl;</pre>
  }
  return 0;
}
OUTPUT:-
Enter number of students: 3
Enter PRN of student 1: 1
Enter name of student 1: a
Enter PRN of student 2: 2
Enter name of student 2: b
Enter PRN of student 3: 3
Enter name of student 3: c
```

Student data stored successfully!

Enter PRN to search: 1

Student Name: a