Program Birthday List:

CODE OF PROGRAM:

```cpp
#include <iostream>
#include <string>
#include <map>
#include <vector>

using namespace std;
void displayBirthdays(const map<string, string>& birthdays) {
    cout << "Birthday List:" << endl;
    for (const auto& entry : birthdays) {
        cout << entry.first << ": " << entry.second << endl;
    }
    cout << endl;
}
void searchBirthday(const map<string, string>& birthdays, const string& name) {
    auto it = birthdays.find(name);
    if (it != birthdays.end()) {
        cout << "Birthday found: " << it->second << endl;
    } else {
        cout << "Birthday not found for " << name << endl;
    }
    cout << endl;
}
void displayMonthlyBirthdays(const map<string, string>& birthdays, const string& month) {
    cout << "Birthdays in " << month << ":" << endl;
    for (const auto& entry : birthdays) {
        if (entry.second.substr(3, 2) == month) {
            cout << entry.first << ": " << entry.second << endl;
        }
    }
    cout << endl;
}

int main() {
```

```cpp
    map<string, string> birthdays;


    birthdays["Hema"] = "17-04-2003";
    birthdays["Disha"] = "02-03-2002";
    birthdays["Vicky"] = "12-12-2000";
    birthdays["Nitu"] = "03-10-2003";
    displayBirthdays(birthdays);
    string searchName;
    cout << "Enter a name to search for: ";
    cin >> searchName;
    searchBirthday(birthdays, searchName);
 string searchMonth;
    cout << "Enter a month to display birthdays for: ";
    cin >> searchMonth;
    displayMonthlyBirthdays(birthdays, searchMonth);

return 0;
}
```

OUTPUT :

Birthday List:
Disha: 02-03-2002
Hema: 17-04-2003
Vicky: 12-12-2000

Enter a name to search for: Hema
Birthday found: 17-04-2003

Enter a month to display birthdays for: 04
Birthdays in 04:
Hema: 17-04-2003