**Birthday List Program**

**Input:**

#include <iostream>

#include <string>

#include <map>

#include <vector>

using namespace std;

// Function to display a list of birthdays

void displayBirthdays(const map<string, string>& birthdays) {

cout << "Birthday List:" << endl;

for (const auto& entry : birthdays) {

cout << entry.first << ": " << entry.second << endl;

}

cout << endl;

}

// Function to search for a birthday by name

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;

}

// Function to display monthly birthdays

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() {

map<string, string> birthdays;

birthdays["Ravi"] = "11-03-2002";

birthdays["vivek"] = "02--2007";

birthdays["Ram"] = "12-10-2000";

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:**

**Ram: 12-10-2000**

**Ravi: 11-03-2002**

**vivek: 02--2007**

**Enter a name to search for: Ravi**

**Birthday found: 11-03-2002**

**Enter a month to display birthdays for: 03**

**Birthdays in 03:**

**Ravi: 11-03-2002**