

Main.cpp

```
#include <iostream>
#include <string>
#include <iomanip>
#include "identification.h"

using namespace std;

int main()
{
    string input;

    Identification i;

    cout << "What is your first name? ";
    cin >> input;

    i.setFirstName(input);

    cout << "What is your last name? ";
    cin >> input;

    i.setLastName(input);

    string upperFirst;
    for (auto &c : i.getFirstName())
        upperFirst += toupper(c);

    cout << "Your first name is: " << i.getFirstName() << endl;
    cout << "Your last name is: " << i.getLastName() << endl;
    cout << "Your name is: " << i.getLength(i.getFirstName(),
i.getLastName()) << " characters long." << endl;
```

```
    cout << "Your name in reverse order is: " << i.getLastName()
<< ", " << upperFirst << endl;

    return 0;
}
```

Identification.h

```
#ifndef IDENTIFICATION_H
#define IDENTIFICATION_H

#include <string>

using namespace std;

class Identification
{
private:
    string firstName;
    string lastName;

public:
    void setLastName(string);
    string getFirstName();
    void setFirstName(string);
    string getLastName();
    string reverse(string, string);
    int getLength(string, string);
};

#endif
```

Identification.cpp

```
#include "identification.h"
#include <cstring>
```

```
#include <iostream>
#include <iomanip>

using namespace std;

void Identification::setFirstName(string first)
{
    firstName = first;
}

void Identification::setLastName(string last)
{
    lastName = last;
}

string Identification::getFirstName()
{
    return firstName;
}

string Identification::getLastName()
{
    return lastName;
}

string Identification::reverse(string first, string last)
{
    string temp = last + ", " + first;

    return temp;
}

int Identification::getLength(string first, string last)
```

```
{  
    int length = first.length() + last.length();  
    return length;  
}
```

Output:

```
What is your first name? Jane  
What is your last name? Doe  
Your first name is: Jane  
Your last name is: Doe  
Your name is: 7 characters long.  
Your name in reverse order is: Doe, Jane
```