

Submission:

Submit main.cpp, personType.h, personTypeImp.cpp along with the screenshot of the output. Write your name in the main program, and comments are highly encouraged. (Programming exercise 10-11 (Page No. 738))

Instructions

Example 10-10 defined a `class personType` to store the name of a person. The member functions that we included merely print the name and set the name of a person. Redefine the `class personType` so that, in addition to what the existing `class` does, you can:

- Set the first name only.
- Set the last name only.
- Store and set the middle name.
- Print out the name
- Check whether a given first name is the same as the first name of this person.
- Check whether a given last name is the same as the last name of this person.

Write the definitions of the member functions to implement the operations for this `class`. Also, write a program to test various operations on this `class`.

Main.cpp

```
#include <iostream>
```

```
using namespace std;
```

```
int main() {  
    // Write your main here
```

```
        return 0;
    }
```

```
*****
```

personType.h

```
*****
```

```
#ifndef PERSON_TYPE_H
#define PERSON_TYPE_H
```

```
#include <string>
using namespace std;
```

```
class personType
{
public:
    void print() const;
    void setName(string first, string middle, string last);
    void setLastName(string last);
    void setFirstName(string first);
    void setMiddleName(string middle);

    bool isLastName(string last) const;
    bool isFirstName(string first) const;

    string getFirstName() const;
    string getMiddleName() const;
```

```

        string getLastName() const;

        personType(string first = "", string middle = "", string last = "");

private:
    string firstName;
    string middleName;
    string lastName;
};

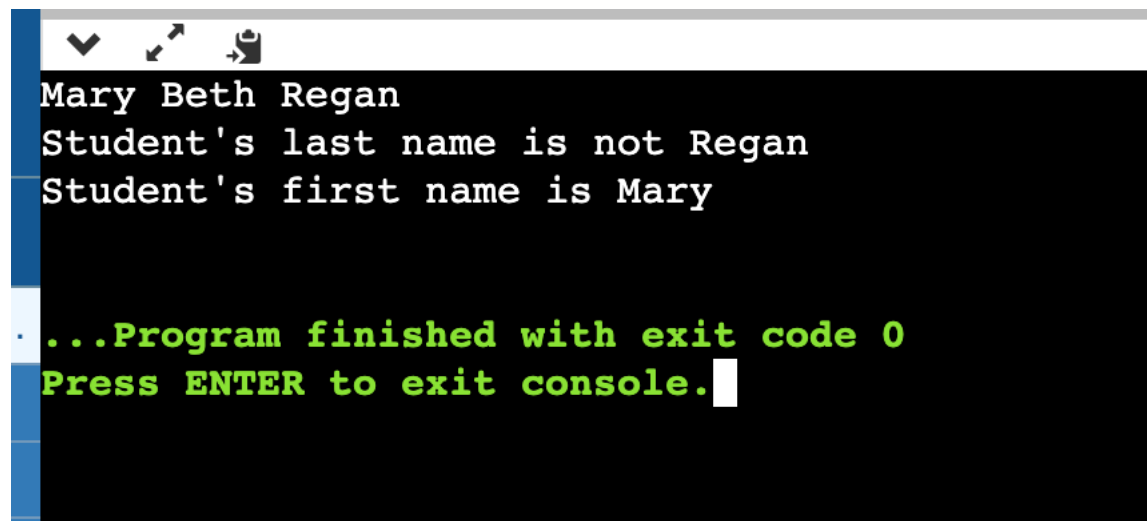
#endif

```

personTypeImp.cpp

// Write your code here

Sample output



The screenshot shows a console window with a dark background and white text. At the top, there are three icons: a checkmark, a cursor, and a trash can. The output text is as follows:

```

Mary Beth Regan
Student's last name is not Regan
Student's first name is Mary

...Program finished with exit code 0
Press ENTER to exit console.

```