```
Philip Pesic
Week 8
October 9 2022
Week 8 Prog 4
Write and run the following code.
 ** Explain correctly and fully how fun1 and fun1 pointer arguments works.. // use comments
on each line..
//
// main.cpp
// Week 8 Prog 4
//
// Created by Pippo Pesic on 10/5/22.
//
#include <iostream>
using namespace std;
#include <string>
class myClass {
       private:
       int x;
       public:
       myClass() \{ x = 0; \}
```

```
Philip Pesic
Week 8
October 9 2022
Week 8 Prog 4
       myClass( int inX ) { x = inX; }
       int getX( ) { return x; }
       void setX( int inX ) { x = inX; }
};
void fun1( myClass & inC1) //Declares inC1 as pointer to myClass
{
       inC1.setX(42); //Sets C1 X to 42
}
void fun2( myClass * inC2)
{
       inC2->setX(66);
}
int main()
{
 std::string name;
 std::cout << "What is your name? ";
 getline (std::cin, name);
 std::cout << "Hello friend, " << name << "!\n";
```

```
Philip Pesic
Week 8
October 9 2022
Week 8 Prog 4
 myClass mainC1;
 cout << mainC1.getX() << endl;</pre>
 fun1( mainC1 ); //Calls fun1 with the object mainC1 as a parameter, pointer gives mainC1
value 42
 cout \le mainC1.getX() \le endl; //Returns the value that it recieved from pointer
 fun2 ( &mainC1 );
 cout << mainC1.getX() << endl;</pre>
 cout << "Philip Pesic 10/9/22" << endl;
       return 0;
}
```

Philip Pesic

Week 8

October 9 2022

Week 8 Prog 4

```
▶ Week 8 Prog 4 ■ Week 8 Prog 4 > ■ My Mac Finished running Week 8 Prog 4 : Week 8 Prog 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identity and Type
    ∨ ✓ Week 8 Prog 4
                                                                                                                                       2 // main.cpp

3 // Week 8 Prog 4

4 //

5 // Created by Pippo Pesic on 10/5/22.
         ∨ 🚞 Week 8 Prog 4
     C* main
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Type Default - C++ Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   main.cpp
Full Path /Users/pippo/Desktop/Week
8 Prog 4/Week 8 Prog 4/
main.cpp
                                                                                                                                  suiting messapes std;
sinclude critings

liclass myClass {
    pasiates |
    pas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        On Demand Resource Tags
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Target Membership
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Text Settings
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Text Encoding No Explicit Encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Line Endings No Explicit Line Endings
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indent Using Spaces
Widths 4 0 Indent

Warp lines
                                                                                                                                                                                                                                                                          What is your name? Philip
Hello friend, Philip!
0
42
66
Philip Pesic 10/9/22
Program ended with exit code: 0
                                                                                                                                                                                                                                                                                                                                                                                                                                             ♥ Filter
+ 🐨 Filter 🕘 😥 Auto 🗈 🕦 Filter All Output 🗈
```

I learned: how to recognize pointers in existing code

```
myClass

-x: int

+myClass()
+myclass(inX: int)
+getX() int
+setX(inX: int) void
```