```
Philip Pesic
Week 11
October 30 2022
Week 11 Prog 3
Write and run the code for the first example in the lecture notes
//
// main.cpp
// Week 11 Prog 3
//
// Created by Pippo Pesic on 10/24/22.
//
#include <iostream>
using namespace std;
// Pass by value
void byValueFun ( int inX )
{ cout << endl << endl;
 cout << "Value of inX: " << inX << endl;</pre>
 cout << "Address of inX" << \&inX << endl;
}
// Pass by Reference method 1
void byRef1Fun ( int & inX )
{ cout << endl << endl;
```

```
Philip Pesic
Week 11
October 30 2022
Week 11 Prog 3
 cout << "Value of inX: " << inX << endl;</pre>
 cout << "inX is the SAME Address of inX " << &inX << endl;
}
// Pass by Reference method 2
void byRef2Fun ( int * ptrInX ) // Uses pointer variables
{ cout << endl << endl;
 cout << "Value *inX: " << *ptrInX << endl;</pre>
 cout << "Address in inX: " << ptrInX << endl;</pre>
}
int main()
{
       int x = 42;
       cout \le endl \le "Declared in main: Value of x: " \le x \le endl;
       cout << "Declared in main: Address of x: " << &x << endl;
```

```
Philip Pesic
Week 11
October 30 2022
Week 11 Prog 3
// Pass by value
      cout << endl << "PASS by Value" << endl;
      cout << "Value of variable x in main, COPIED to variable inX in function by ValueFun"
<< endl;
      by ValueFun(x);
      cout << "-----" << endl;
// Pass by Reference method 1
      cout << endl << "PASS by Reference method 1" << endl;
      cout << "The address of variable x in main, becomes the SAME address as inX in
function byRef1Fun" << endl;</pre>
      byRef1Fun(x);
      cout << "-----" << endl;
// Pass by Reference method 2
      cout << endl << "PASS by Reference method 2" << endl;
      cout << "The address of variable x in main, copied to variable ptrInX in function
byRef2Fun" << endl;
      byRef2Fun(&x);
```

```
Philip Pesic

Week 11

October 30 2022

Week 11 Prog 3

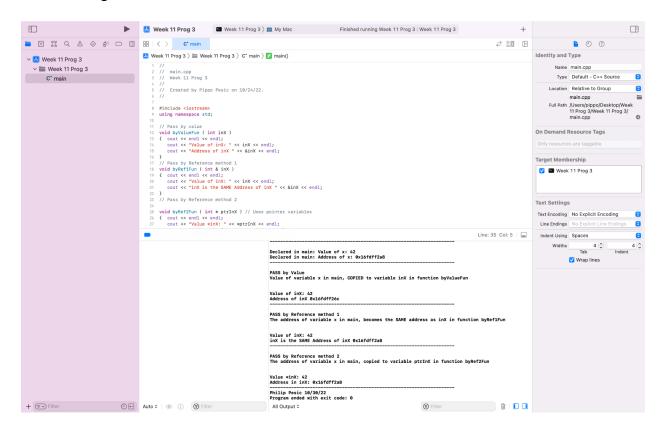
cout << "Philip Pesic 10/30/22" << endl;
return 0;
}
```

Philip Pesic

Week 11

October 30 2022

Week 11 Prog 3

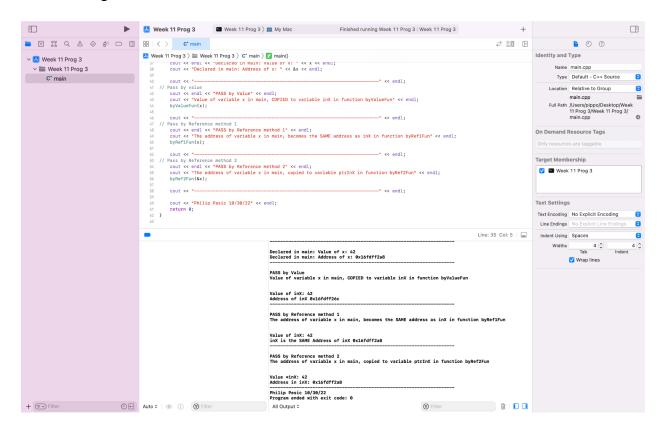


Philip Pesic

Week 11

October 30 2022

Week 11 Prog 3



I learned: how to pass by reference and value with different functions