Philip Pesic

Week 5

September 18 2022

Week 5 Prog 3

Program 3) Run the following Sample Code - Produce the correct output and Turn it in for credit

```
// main.cpp
// Week 4 Prog 3
// Created by Pippo Pesic on 9/11/22.
/\!/ Sample Class - Print and Study, RUN the code...
#include <iostream>
#include <string>
using namespace std;
// STEP 1 - DEFINE THE new datatype/Class 'aThing'
class aThing {
public: // Public means that is can be access in step 3 with the dot notation
  double getWeight(void) { return weight; } // public functions accessible by dot notation
  void setWeight( double inWeight ) { weight = inWeight; }
private: // Private means that it can NOT be accessed with the dot notation, but indirectly with a public function
  double weight; // private variables only accessible by a function
};
{ // STEP 2 - DECLARATION - USE the new datatype/class 'aThing' in a Declaration statement to create 'ThingOne'
  aThing ThingOne;
  // STEP 3 - Use the OBJECT defined in step 2 - With dot notation
  ThingOne.setWeight(110);
  cout << "Use Function/Method get Weight - "<< "Weight is: " << ThingOne.getWeight() << endl;
  //system("PAUSE"); // MAC User comment this line out.
  cout << "Philip Pesic 9/11/22" << endl;
  return 0;
```

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```
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                                       ▶ Week 5 Prog 3 ■ Week 5 Prog 3 > ■ My Mac
                                                                                                                      Expanding dyld shared cache
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 ∨ <a>∠ Week 5 Prog 3</a> h p3
                                               Week 5 Prog 3 ⟩ 

■ Week 5 Prog 3 ⟩ C<sup>+</sup> main ⟩ 

■ main()
                                                                                                                                                                                                            Identity and Type
                                                 / // main.cpp
3 // Week 5 Prog 3
4 //
5 // Created by Pippo Pesic on 9/14/22.
   h p3

∨ ■ Week 5 Prog 3
                                                                                                                                                                                                                main.cpp
Full Path /Users/pippo/Desktop/Week
5 Prog 3/Week 5 Prog 3/
main.cpp
                                                 11 using mamespace std;

27 / STEP 1 - DEFINE THE new datatype/Class 'aThing'

38 int main()

40 / STEP 2 - DECLARATION - USE the new datatype/class 'aThing' in a Declaration statement to create 'ThingOne'

47 a Thing ThingOne;

48 | ThingOne - Stweight(130);

49 | ThingOne - Stweight(130);
                                                                                                                                                                                                            On Demand Resource Tags
                                                                                                                                                                                                            Target Membership
                                                                                                                                                                                                             ✓ Week 5 Prog 3
                                                        ThingOne.setWeight(110);
                                                                                                                                                                                                            Text Settings
                                                       //system("PAUSE"); // MAC User comment this line out.
                                                                                                                                                                                                             Text Encoding No Explicit Encoding
                                                     cout << "Philip Pesic 9/18/22" << endl;
return θ;</pre>
                                                                                                                                                                                                             Line Endings No Explicit Line Endings
                                                                                                                                                                                                             Indent Using Spaces
Widths 4 0 Indent
Warp lines
                                                                                                  Use Function/Method get Weight - Weight is: 110
Philip Pesic 9/18/22
Program ended with exit code: 0
+ To Filter 4 Auto 0 (1) The Filter All Output 0
                                                                                                                                                         ♥ Filter
```

I practiced writing and importing .h files into a program

```
aThing

-weight: int

+getWeight (int: weight) return void
+setWeight (int: inWeight) return: inWeight = weight
```