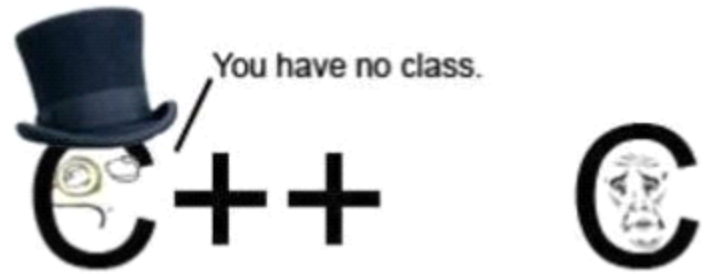


C++ 1 - Assignment3

Goal

The goal of this assignment is to become more familiar classes. The basic syntax, constructors & destructors, getters & setters and member variables.



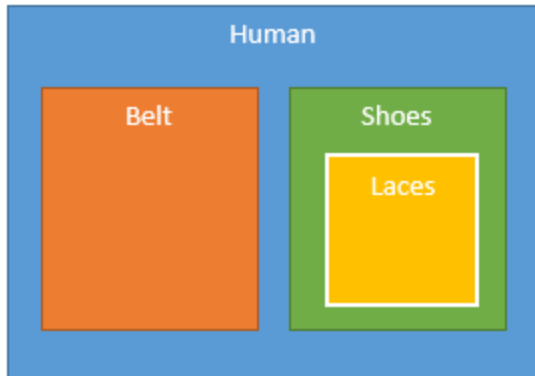
Steps

1. Create the third assignment project in your visual studio homework solution.
2. Create four different classes (each with a header and cpp):
 - a. **Human**
 - b. **Belt**
 - c. **Shoes**
 - d. **Laces**
3. Each of these classes should have a default constructor and destructor.
4. Create these **PRIVATE** member variables (Remember to, #include "" the correct files when needed):
 - a. **Human:**
 - mBelt of type **Belt**.
 - mShoes of type **Shoes**.
 - mName of type **string**.
 - b. **Belt:**
 - mSize of type **int**.
 - c. **Shoes:**
 - mColour of type **string**.
 - mLaces of type **Laces**.
 - d. **Laces:**
 - mTied of type **bool**.
5. Initialize the member variables in each class through the initialization list. This should be done on all Constructors (including the defined constructors [see number 7])!!
6. Create **PUBLIC** Getter and Setter methods for all member variables in each class.
7. Add these defined constructors. Each bullet point should be its own defined constructor:
 - a. **Belt:**
 - Integer parameter to set the belt size.
 - b. **Shoes:**
 - String parameter to set the colour of the shoes.
 - c. **Human:**
 - String parameter to set the name.
 - String parameter to set the name, Integer parameter to set belt size and a String to set the colour of

the shoes. [In the initialization list you can call the defined constructors for the mBelt and mShoes member variables. Take a look at the Vehicle defined constructor from class for how to do this.].

Hints

Here is a good visualization of what you are trying to create:



These are the "**HAS A**" relationships you are trying to create.

- A Human **HAS A** Belt & Shoes.
- Shoes **HAVE** Laces.

You will still need to add main.cpp and the main function so the program will compile.

During this assignment make small commits and pushes to source tree. Commit at each step, while the code is compiling.

Due Date

This assignment has a **HARD DUE DATE** of: **October 11th, 2017** at **11:59:59 PM!**

Please, do your homework! If you need help feel free to email me anytime!