Lab 5

Course: CSE 165

All the exercises below are selected from the textbook: Thinking in C++ (volume 1).

1. [Exercise 1 on Page 610] Create a class Counted that contains an int id and a static int count. The default constructor should begin: Counted() : id(count++). It should also print its id and that it's being created. The destructor should print that it's being destroyed and its id. Test your class. [35 pts]

2. [Exercise 4 on Page 610] Create a vector< Counted*> and fill it with pointers to new Counted objects (from Exercise 1). Move through the vector and print the Counted objects, then move through again and delete each one. [30 pts]

2. [Exercise-14 on Page 718] In AddingVirtuals.cpp, make all the member functions of Pet pure virtual, but provide a definition for name(). Fix Dog as necessary, using the base-class definition of name(). [35 points]

Requirements:

* Usage of spaces, blank lines, indention, and comments for readability.

* Descriptive names of variables, functions, structs, classes, and objects (if any).

* Appropriate usage of structs, classes, and objects (if any).

Penalties:

* Zero if you have possession of a copy of online solutions or work done by someone else.

* 5-point deduction per day late