CS-M10B – Object Oriented Programming Using C++

Project Assignment #9

Student Name: .

Student ID Number: .

Please extend the “cats & dogs” example, covered in class (Animals 3.cpp) to do the following:

* The base class contains a static animal counter variable that is incremented with the creation of each animal (cat or dog).
* The client program maintains an array to 10 animals (cats or dogs).
* The client program dynamically allocates 10 animals. The choice of whether to create a cat or dog depends on a random number (how do you generate random numbers?). If the random number is 0, it creates a cat. If the random number is 1, it creates a dog.
* Naming of the animals is as follows:
  + For a cat, use a string consisting of “Cat-“ + animal counter value (see above)
  + For a dog, use a string consisting of “Dog-“ + animal counter value

Once the program has instantiated 10 animals (cats and dogs) it prints their names using a single loop for this purpose.

Please submit the following:

* A **single** source code file named *week9.cpp*