

MEMO

This homework assignment is complete and works properly. The hardest part of this lab was to implement the polymorphism and the interfaces. I learned these concepts in class CS 116 (Object Oriented Programming 2) but they were not extensively studied. However, after working and brainstorming on this homework problem, I can safely say that I understand these concepts and other Object Oriented Designing concepts much better now.

One of the problems that I faced in this homework was creating an array of type Creatures in TestCreature. An array was required to be created, however, since Creature class is an abstract class, it can not be initiated. The issue here was that I had to populate an array of type Creature with Objects of types Ant, Bat, Fly or Tiger. But an array of type Creature could not be created as we to go through a loop while the user enters the data, so the array had to be dynamic and it could not be initiated. We could only fill it once we had all the values. Therefore, I decided of using a Vector instead of using an array for Creature.