PARODY PET 08/16/2022

**Inspiration**

I needed a way to accurately measure my dogs’ food to control their weight. They are small dogs, and the food instructions provide a wide range. Also, the available food calculators recommend way more food than my dogs should eat. Not sure why this, but hope to avoid that pitfall and dial the amounts in more accurately.

**Initial Approach**

Although Parody Pet is a fictitious brand, I plan to use suggested measurements from popular high-end foods as an initial measurement to adjust. I will also use the amounts I that work for maintaining my dogs’ weights compare calculations. I anticipate the cat and bird foods will have more variance unless I can work with numbers from friends’ pets to compare.

**Goal**

Program should calculate the correct amount of food for the desired weight, whether to maintain current weight or lose weight.

**Thoughts**

Three pet types: bird, cat, dog

Inputs: pet name, age (years/months), weight (pounds/ounces), and goal weight

Selection: type of pet

Example:

Mr. Pickles

age: 8 years 11 months

weight: 17 pounds 8 ounces

goal weight: 17 pounds 8 ounces

Outputs: Food Name (different for baby, adult, and senior), how much food to maintain current weight, and how much to lose weight – maybe include suggestion for incremental decrease and consulting veterinarian.

**Implementation Ideas**

PetInfo interface to create contract for pet type, name, age, weight, and goal weight.

Abstract Pet class implements PetInfo.

BirdCalculator Interface

CatCalculator Interface

DogCalculator Interface

Classes:

Bird extends Pet, implements BirdCalculator

Cat extends Pet, implements CatCalculator

Dog extends Pet, implements DogCalculator