Challenge 2: Implement an Animal Class

In this challenge, we'll implement a base class Animal and two derived classes Sheeps and Dogs.

WE'LL COVER THE FOLLOWING ^

- Problem Statement
 - Input
 - Sample Input
 - Sample Output
- Coding Exercise
 - Solution Review

Problem Statement

The code below has:

- A parent class named Animal.
 - Inside it *define*:
 - Name
 - Sound
 - void Animal_Details() function:
 - It prints the name and sound of the Animal.
- Then there are **two derived** *classes*
 - o Dogs class
 - has a *private* member family
 - has a function named Dog_detail() which prints detail of the dog
 - Sheeps class
 - has a private member color

- has a function named Sheep_detail() which prints detail of theSheep
- The derived classes should
 - o call the method of the Animal class which prints the name and the sound and for Dogs class prints the *family* of dog that is **Carnivores** and for Sheeps class prints the *color* of sheep **White**.

Input

- Name of Dog is set to Pongo and the Sound is set to woof woof in parametrized constructor of Dogs object
- Name of Sheep is set to **Billy** and the Sound is set to **baaa baaa** in parametrized constructor of Sheeps object
- Now, print Dog_detail and Sheep_detail from their respective objects

Here's a sample result which you should get.

Sample Input

```
Dogs d("Pongo", "Woof Woof");
d.Dog_detail();
Sheeps s("Billy", "Baaa Baaa");
s.Sheep_detail();
```

Sample Output

Animal Name: Pongo

Animal Sound: Woof Woof

Dog's Family: Carnivores

Animal Name: Billy

Animal Sound : Baaa Baaa

Sheep Color: White

Coding Exercise

Implement the code in the **problem** tab.

Good Luck!



Solution Review

- We have implemented Animal class which have Name and Sound variables, and a function Animal_detail() which prints Name and Sound of animal
- Now implement Dogs and Sheeps classes inherited publicly from Animal class
- Sheeps has private string color variable and a function Sheep_detail()
 which calls Animal_detail() function and prints color of the sheep
- Dogs has private string family variable and a function Sheep_detail()
 which calls Animal_detail() function and prints family of the sheep
- Create Dog and sheep object by calling parametrized constructors of the classes and print their traits by calling their respective functions

In the next challenge, we'll solve another exercise to get more grip on inheritance.