Solution Review 2: Implement an Animal Class

This lesson provides a solution review for the 'Implement an Animal Class' challenge.

WE'LL COVER THE FOLLOWING ^

- Solution
- Explanation

Solution

```
a solution
class Animal:
    def __init__(self, name, sound):
        self.name = name
        self.sound = sound
    def Animal_details(self):
        print("Name:", self.name)
        print("Sound:", self.sound)
class Dog(Animal):
    def __init__(self, name, sound, family):
        super().__init__(name, sound)
        self.family = family
    def Animal_details(self):
        super().Animal_details()
        print("Family:", self.family)
class Sheep(Animal):
    def __init__(self, name, sound, color):
        super().__init__(name, sound)
        self.color = color
    def Animal_details(self):
        super().Animal_details()
        print("Color:", self.color)
d = Dog("Pongo", "Woof Woof", "Husky")
d.Animal_details()
```

```
print("")
s = Sheep("Billy", "Baa Baa", "White")
s.Animal_details()
```

Explanation

- We have implemented an Animal class which has name and sound properties, and a method Animal_details() which is overridden in its child classes.
- Then, we implemented the Dog and Sheep classes, which are inherited from the Animal class.
- Dog has an additional property, family, and the overridden method,
 Animals_details(). This method calls the parent method using the super() function and also prints the family property.
- Sheep has an additional property, color, and the overridden method,
 Animals_details(). This method calls the parent method using the super() function and also prints the color property.
- Created and initialized Dog and Sheep objects and printed their traits by calling their respective methods.

This is it for polymorphism. In the next chapter, we will learn about the different relationships between classes.