Solution Review 1: Cars and Engines!

This lesson provides the solution to the challenge, "Cars and Engines!" with an explanation.

WE'LL COVER THE FOLLOWING ^

- Solution
 - Explanation

Solution

```
class Car:
   def init (self, model, color):
        self.model = model
        self.color = color
    def printDetails(self):
        print("Model:", self.model)
        print("Color:", self.color)
class SedanEngine:
   def start(self):
        print("Car has started.")
   def stop(self):
        print("Car has stopped.")
class Sedan(Car):
    def __init__(self, model, color):
        super().__init__(model, color)
        self.engine = SedanEngine()
   def setStart(self):
        self.engine.start()
   def setStop(self):
        self.engine.stop()
car1 = Sedan("Toyota", "Grey")
car1.setStart()
car1.printDetails()
car1.setStop()
```









Explanation

- Line 2-4: Initialized car properties
- Line 6-8: printDetails() prints properties of Car.
- **Line 12-16**: start() and stop() functions defined with their respective outputs.
- **Line 20-22**: Initializer for Sedan defined which also refers to the *parent class* initializer using super().
- Created an object of SedanEngine and assigned it to the Sedan class property engine.
- Line 24-25: start() method of SedanEngine object is called to start the car.
- Line 27-28: stop() method of SedanEngine object is called to stop the car.