APCS – Mr. Ascione

Vehicles

OBJECTIVE: This lab was designed to help you understand how to create and design an inheritance hierarchy.

SPEC:

Vehicle is our superclass. All vehicles have certain traits in common and these belong at the top of our hierarchy – in the Vehicle class. Features that are unique to a particular type of vehicle we will keep at the sub-class level.

public class Vehicle

{

    private double topSpeed, cost;
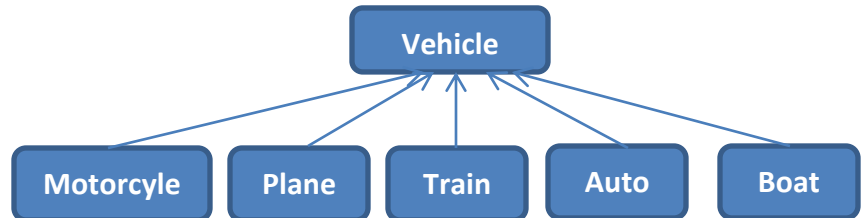   private String fuelType;

    public Vehicle(){}

    public Vehicle(double topSpeed, double cost, String fuelType) {}

    // Add gets and sets

    public String toString(){}

}

Complete the code for the superclass and create subclasses for the following types of vehicles:

- Motorcycle
- Plane
- Train
- Automobile
- Boat

OUTPUT: Create a basic console runner to test out your objects and demonstrate polymorphic behavior.

EXTRA: Create a more elaborate GUI that actually does something… have fun with it!