# Cars

1. Create a super class called **Car**. The Car class has the following fields and methods:
   * Int speed;
   * double regularPrice;
   * String color;
   * double getSalePrice();
2. Create a subclass of Car class and name it as **Truck**. The Truck class has the following fields and methods:
   * int weight;
   * double getSalePrice();

\* If weight > 2000, 10% discount. Otherwise, 20% discount.

1. Create a subclass of Car class and name it as **Ford**. The Ford class has the following fields and methods:
   * int year;
   * int manufacturerDiscount;
   * double getSalePrice();

\* From the sale price computed from Car class, subtract the manufacturerDiscount.

1. Create a subclass of Car class and name it as **Sedan**. The Sedan class has the following fields and methods:
   * int length;
   * double getSalePrice();

\* If length > 20 feet, 5% discount, Otherwise, 10% discount.

1. Create **MyOwnAutoShop** class which contains the main() method. Perform the following within the main() method:
   * Create an instance of Sedan class and initialize all the fields with appropriate values. Use super(...) method in the constructor for initializing the fields of the superclass.
   * Create two instances of the Ford class and initialize all the fields with appropriate values. Use super(...) method in the constructor for initializing the fields of the super class.
   * Create an instance of Car class and initialize all the fields with appropriate values. Display the sale prices of all instance.

**Instructor: Mohammed Elkarsh**