

```
public class Car{
    private int speed;
    private double regularPrice;
    private String color;

    public Car(int speed, double regularPrice, String color) {
        this.speed = speed;
        this.regularPrice = regularPrice;
        this.color = color;
    }

    public int getSpeed() {
        return speed;
    }

    public double getRegularPrice() {
        return regularPrice;
    }

    public String getColor() {
        return color;
    }

    public void setSpeed(int speed) {
        this.speed = speed;
    }

    public void setRegularPrice(double regularPrice) {
        this.regularPrice = regularPrice;
    }

    public void setColor(String color) {
        this.color = color;
    }
    public double getSalePrice(){
        return regularPrice;
    }

    @Override
    public String toString() {
        return "Car [speed=" + speed + ", regularPrice=" + regularPrice + ",
color=" + color + "]\n";
    }
}
```

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}
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```
public class Truck extends Car{
    private int weight;

    public Truck(int speed, double regularPrice, String color, int weight) {
        super(speed, regularPrice, color);
        this.weight = weight;
    }

    public void setWeight(int weight) {
        this.weight = weight;
    }

    public int getWeight() {
        return weight;
    }
    public double getSalePrice(){
        double discount = 0;
        if (weight > 2000){
            discount = 0.1*super.getRegularPrice();
        }else{
            discount = 0.2*super.getRegularPrice();
        }
        return super.getRegularPrice() - discount;
    }
    @Override
    public String toString() {
        return "Truck [weight=" + weight + "]";
    }
}
```

```
public class Ford extends Car{
    private int year;
    private int manufacturerDiscount;
    public Ford(int speed, double regularPrice, String color, int year, int
manufacturerDiscount) {
        super(speed, regularPrice, color);
        this.year = year;
        this.manufacturerDiscount = manufacturerDiscount;
    }
}
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    public void setYear(int year) {
        this.year = year;
    }
    public void setManufacturerDiscount(int manufacturerDiscount) {
        this.manufacturerDiscount = manufacturerDiscount;
    }
    public int getYear() {
        return year;
    }
    public int getManufacturerDiscount() {
        return manufacturerDiscount;
    }
    public double getSalePrice(){

        return super.getSalePrice() - manufacturerDiscount;
    }
    @Override
    public String toString() {
        return "Ford [year=" + year + ", manufacturerDiscount=" +
manufacturerDiscount + "]\n";
    }
}

```

```

public class Sedan extends Car{
    private int length;

    public Sedan(int speed, double regularPrice, String color, int length) {
        super(speed, regularPrice, color);
        this.length = length;
    }

    public void setLength(int length) {
        this.length = length;
    }

    public int getLength() {
        return length;
    }
    public double getSalePrice(){
        double discount = 0;

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        if (length > 20){
            discount = 0.05*super.getRegularPrice();
        }else{
            discount = 0.1*super.getRegularPrice();
        }
        return super.getRegularPrice() - discount;
    }

    @Override
    public String toString() {
        return "Sedan [length=" + length + "]";
    }
}

```

```

public class MyOwnAutoShop {
    public static void main(String[] args) {
        Sedan sedan = new Sedan(233,40000,"red",34);
        Ford ford1 = new Ford(299,23000.0,"white",56,23000);
        Ford ford2 = new Ford(100,4900.0,"Blac",35,50000);
        Car car = new Car(500,7900.5,"Yellow");

        System.out.println("Seden Price is: "+sedan.getSalePrice());
        System.out.println("Ford1 Price is: "+ford1.getSalePrice());
        System.out.println("Ford2 Price is: "+ford2.getSalePrice());
        System.out.println("Car Price is: "+car.getSalePrice());
    }
}

```

My GitHub Account "khasamoh" Repository "JavaCode"