

Java → Object-oriented programming → Inheritance and polymorphism → Nested classes → Inner classes

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# Inner classes → Improve your vehicle

Medium 4 minutes

Add the field `int horsepower` to the class `Engine`.

Then create a method `void printHorsePower` inside the inner class that prints the `name` of your `Vehicle` and the `horsePower` of it's `Engine`.

For a vehicle called Dixi with 20 horsepower the output of `printHorsePower()` should be:

```
1 | Vehicle Dixi has 20 horsepower.
```

And don't forget to add constructors in both classes!

Please, don't use access modifier `private` for methods.

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Write a program

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```
1 class Vehicle {
2
3     private String name;
4
5     // create constructor
6     public Vehicle(String name) {
7         this.name = name;
8     }
9
10    class Engine {
11
12        // add field horsepower
13        // create constructor
14        int horsepower;
15
16        public Engine(int horsepower) {
17            this.horsePower = horsepower;
18        }
19
20        void start() {
21            System.out.println("RRRrrrrrrrr....");
22        }
23
24        // create method printHorsePower()
25        public void printHorsePower() {
26            System.out.printf("Vehicle %s has %d horsepower.", name, this.horsePower);
27        }
28    }
29 }
30
31 // this code should work
32 class EnjoyVehicle {
33
34     public static void main(String[] args) {
35
36         Vehicle vehicle = new Vehicle("Dixi");
37         Vehicle.Engine engine = vehicle.new Engine(15);
38         engine.prinHorsePower();
39     }
40 }
41
```

Java

✓ Correct.

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