

## Exercises for Programming Practice 1

The submitted program will be evaluated as described in “Lesson Plan\_PP1 (2021)”.

Download “Dog.java” from “Java 03” page, Resource of “Programming Practice 1”, manaba+R.

Note:

- ✓ Do not create “module-info.java”, when you create a Java Project.
- ✓ Do not set Package name in the window “New Java Class”.
- ✓ The following information must be included as a comment at the first part of the program.
  - Contents of the program
    - ✧ Do not use the title of exercise for “contents of the program”  
Think about “contents of the program” yourself.
  - Submission date
  - Program creator

The deadline for submitting the programs is 18:00 on October 14th, 2021.

### Exercise 1 (file name “Exercise1.java”)

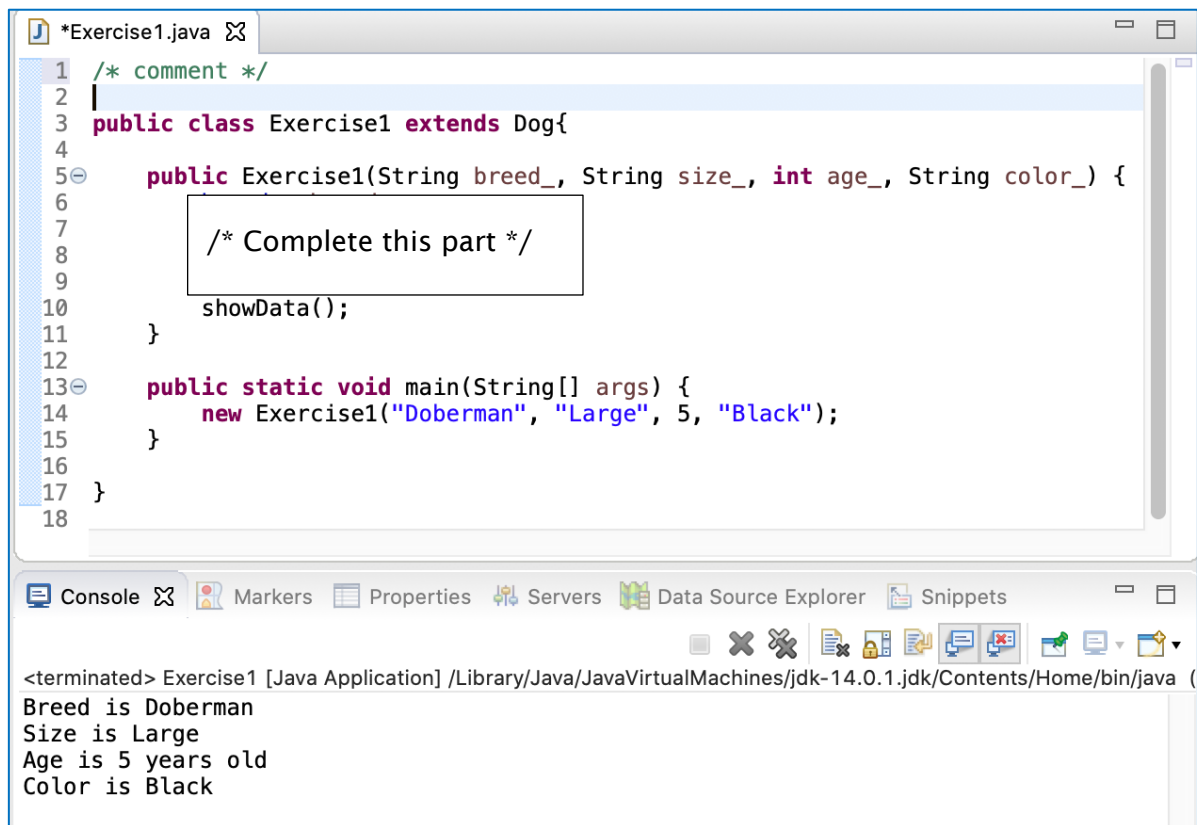
Create a Java Program “Exercise1.java” which inherits “Dog.java” in which there is a parameterized constructor. An example of “contents of the program” is “Doberman class using a parameterized constructor”.

Refer Figure 3 on page 10 of “ThirdDay.pdf <Inheritance(1)>” and use data of Doberman as follows to complete “Exercise1.java”.



Breed = Doberman  
Size = Large  
Age = 5 years  
Color = Black

Figure 1 shows the outline of “Exercise1.java” and the result.



```
1  /* comment */
2
3  public class Exercise1 extends Dog{
4
5      public Exercise1(String breed_, String size_, int age_, String color_) {
6
7          /* Complete this part */
8
9          showData();
10     }
11
12     public static void main(String[] args) {
13         new Exercise1("Doberman", "Large", 5, "Black");
14     }
15 }
16
17
18
```

Console

<terminated> Exercise1 [Java Application] /Library/Java/JavaVirtualMachines/jdk-14.0.1.jdk/Contents/Home/bin/java (

Breed is Doberman  
Size is Large  
Age is 5 years old  
Color is Black

Figure 1. The outline of “Exercise1.java” and the result.

### Exercise 2 (file name “Exercise2.java”)

Create a Java Program “Exercise2.java” by adding the following method “showData()” to program “Exercise1.java”. In this method, Doberman information is expressed in one line as shown in Figure 2. This method overrides the showData method of the Dog class.

Figure 2 shows the outline of “Exercise2.java” and the result.

```
1  /* comment */
2
3  public class Exercise2 extends Dog{
4
5      public Exercise2(String breed_, String size_, int age_, String color_) {
6          /* Complete this part */
7
8          showData();
9      }
10
11      public void showData() {
12          /* Complete this part */
13      }
14
15      public static void main(String[] args) {
16          new Exercise2("Doberman", "Large", 5, "Black");
17      }
18  }
```

Console

<terminated> Exercise2 [Java Application] /Library/Java/JavaVirtualMachines/jdk-14.0.1.jdk/Contents/Home/bin/java (

Data of Doberman is Large, 5 years old and Black

Figure 2. the outline of “Exercise2.java” and the result.