

ShowRoom.java | BankAccount... | Main.java | HillStation... X | Main.java »16

```
34      System.out.println("Mussoorie is located in Uttarakhand, India.");
35  }
36
37  @Override
38  public void famousFor() {
39      System.out.println("Mussoorie is famous for its picturesque views and colonial architec
40  }
41  }
42
43  // Subclass: Gulmarg
44  class Gulmarg extends HillStations {
45  @Override
46  public void location() {
47      System.out.println("Gulmarg is located in Jammu and Kashmir, India.");
48  }
49
50  @Override
51  public void famousFor() {
52      System.out.println("Gulmarg is famous for skiing, snowboarding, and its winter sports."
53  }
54  }
55
56
```

Outline X

lab9

- HillStations
- Manali
- Mussoorie
- Gulmarg

Problems | Javadoc | Declaration | Console X

<terminated> Main (1) [Java Application] C:\sts-4.26.0.RELEASE\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86\_64\_21.0.4.v20240802-1551\jre\bin\javaw.exe (25-Nov-2024, 6:37:30 pm)
Gulmarg is famous for skiing, snowboarding, and its winter sports.
Calling methods by all subclass references:
Manali is located in Himachal Pradesh, India.
Manali is famous for its scenic beauty, adventure sports, and trekking.
Mussoorie is located in Uttarakhand, India.
Mussoorie is famous for its picturesque views and colonial architecture.
Gulmarg is located in Jammu and Kashmir, India.
Gulmarg is famous for skiing, snowboarding, and its winter sports.

IDE interface showing Java code in `ShowRoom.java` and the console output.

**Code in `ShowRoom.java`:**

```
14 // Overriding the makeSound method to print Dog-specific sound
15 @Override
16 public void makeSound() {
17     System.out.println("The dog barks.");
18 }
19 }
20
21 //Subclass: Cat
22 class Cat extends Animal {
23     // Overriding the makeSound method to print Cat-specific sound
24     @Override
25     public void makeSound() {
26         System.out.println("The cat meows.");
27     }
28 }
29
30 //Subclass: Monkey
31 class Monkey extends Animal {
32     // Overriding the makeSound method to print Monkey-specific sound
33     @Override
34     public void makeSound() {
35         System.out.println("The monkey chatters.");
36     }
37 }
38
39
```

**Console Output:**

```
<terminated> Meena [Java Application] C:\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.4.v20240802-15
Animal sound:
The animal makes a sound.

Dog sound:
The dog barks.

Cat sound:
The cat meows.
```

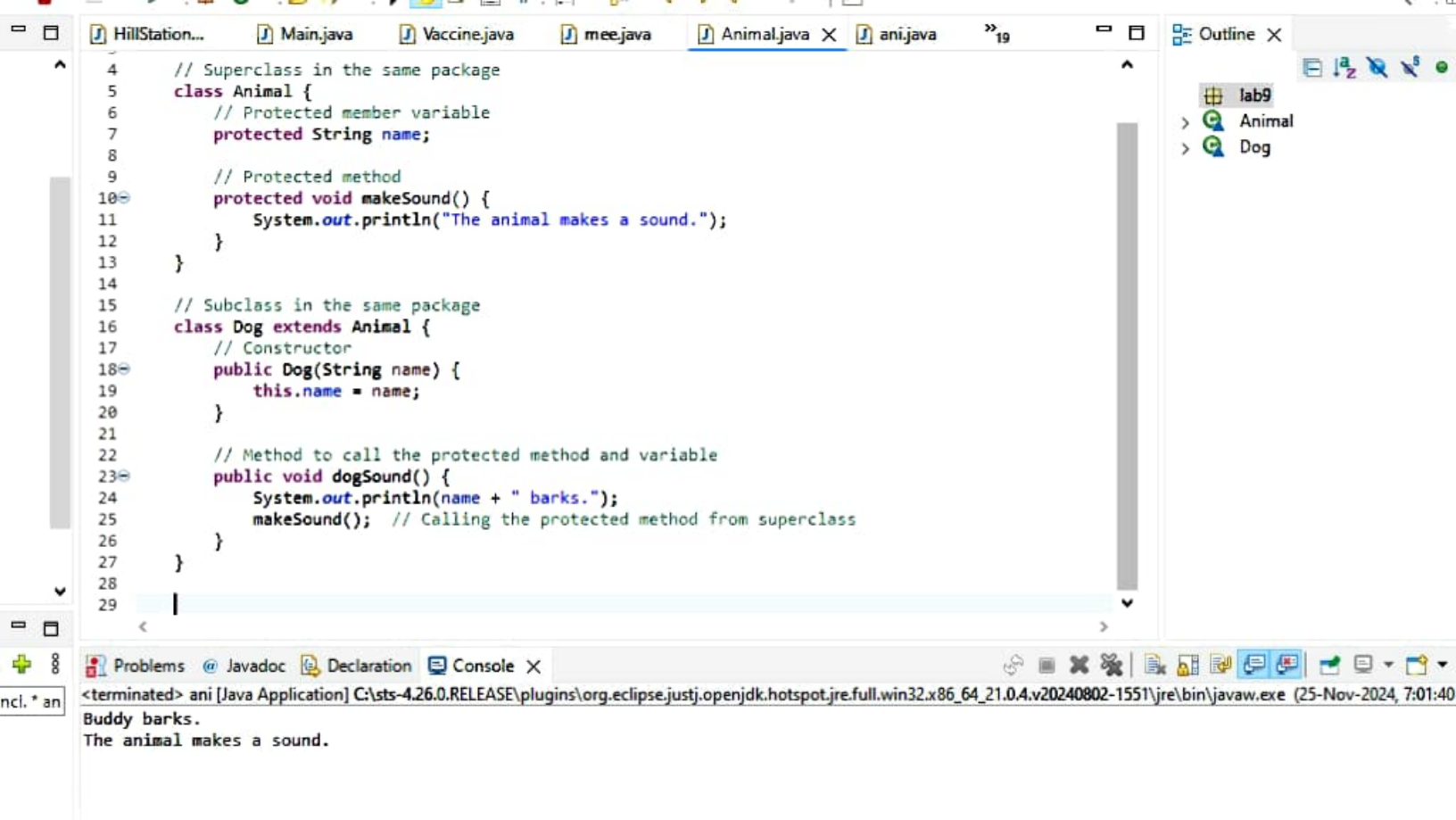
```
HillStation... Main.java Animal.java Meena.java Vaccine.java mee.java x 19
1 package lab9;
2
3 public class mee {
4     // Main class to test the vaccination process
5
6     public static void main(String[] args) {
7         // Create an object of VaccinationSuccessful with age and nationality
8         Vaccine user1 = new VaccinationSuccessful(25, "Indian");
9
10        // Check eligibility for first dose
11        user1.firstDose();
12
13        // Take payment for the first dose
14        System.out.println("Payment made: 250rs for the first dose.");
15
16        // Simulate taking the first dose and then check eligibility for the second dose
17        boolean firstDoseTaken = true; // Assuming the first dose has been taken successfully
18        user1.secondDose(firstDoseTaken);
19
20        // After completing first and second dose, eligible for booster
21        user1.boosterDose();
22    }
23 }
24
25
26
```

Outline x

- lab9
  - mee
    - main(String[]): void

Problems Javadoc Declaration Console x

```
<terminated> mee [Java Application] C:\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.4.v20240802-1551\jre\bin\javaw.exe (25-Nov-2024, 6:55:54)
You are eligible for the first dose.
You have to pay 250rs for the first dose.
Payment made: 250rs for the first dose.
You are eligible for the second dose.
You are eligible for the booster dose after completing both the first and second doses.
```



HillStation...

Main.java

Vaccine.java

mee.java

Animal.java X

ani.java

&gt;&gt;19

Outline X

lab9

&gt; Animal

&gt; Dog

```
4 // Superclass in the same package
5 class Animal {
6     // Protected member variable
7     protected String name;
8
9     // Protected method
10    protected void makeSound() {
11        System.out.println("The animal makes a sound.");
12    }
13 }
14
15 // Subclass in the same package
16 class Dog extends Animal {
17     // Constructor
18    public Dog(String name) {
19        this.name = name;
20    }
21
22    // Method to call the protected method and variable
23    public void dogSound() {
24        System.out.println(name + " barks.");
25        makeSound(); // Calling the protected method from superclass
26    }
27 }
28
29 |
```

Problems @ Javadoc Declaration Console X

ncl. \* an

&lt;terminated&gt; ani [Java Application] C:\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_21.0.4.v20240802-1551\jre\bin\javaw.exe (25-Nov-2024, 7:01:40)

Buddy barks.

The animal makes a sound.