

ShowRoom.java | BankAccount... | Main.java | HillStation... | 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

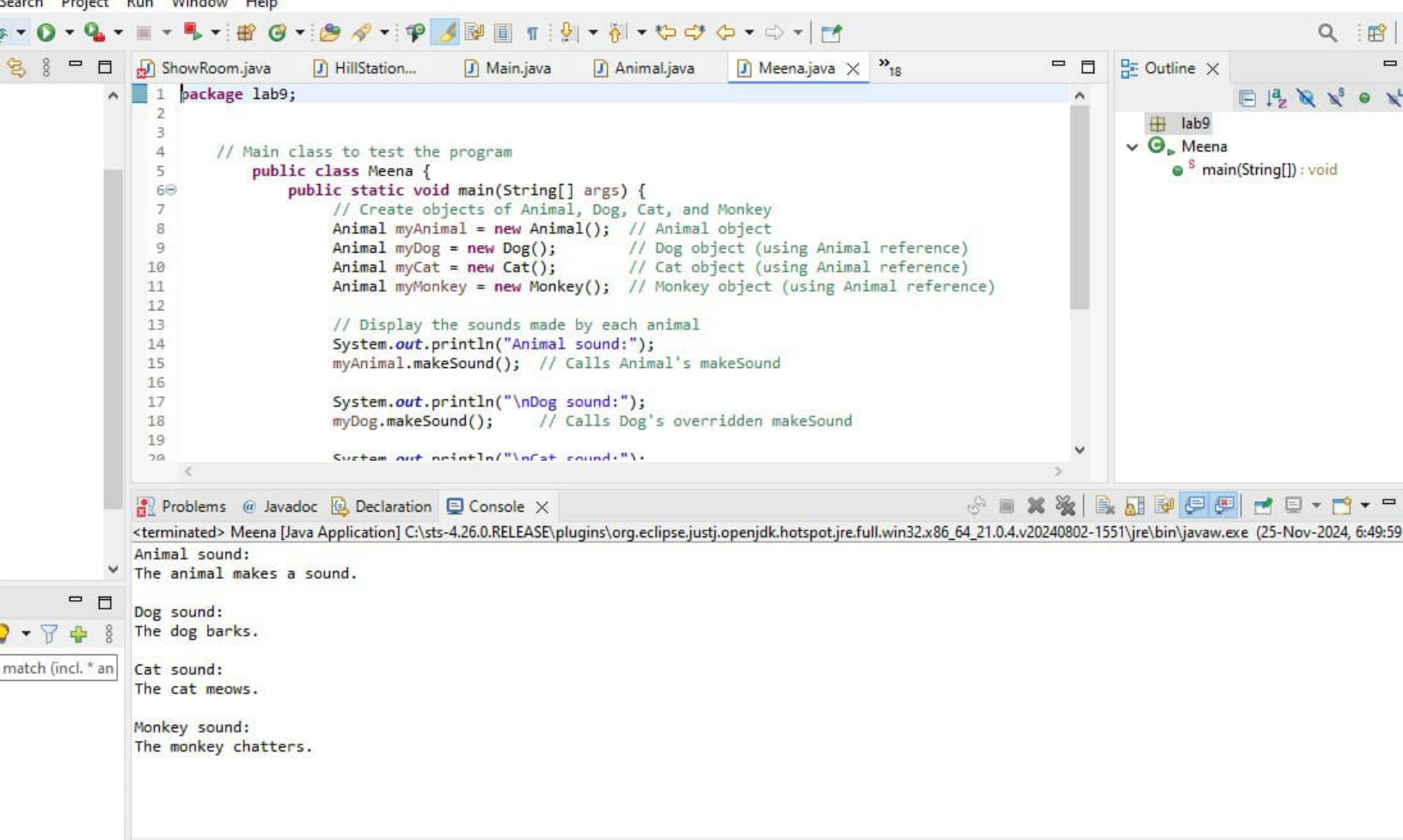
- HillStations
- Manali
- Mussoorie
- Gulmarg

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.



HillStation...Main.javaAnimal.javaMeena.javaVaccine.javaXmee.java

11public Vaccine(int age, String nationality) {  
12 this.age = age;  
13 this.nationality = nationality;  
14}  
15  
16// Concrete method for first dose  
17public void firstDose() {  
18 if (nationality.equalsIgnoreCase("Indian") && age >= 18) {  
19 System.out.println("You are eligible for the first dose.");  
20 System.out.println("You have to pay 450rs for the first dose.");  
21 } else {  
22 System.out.println("You are not eligible for the first dose.");  
23 }  
24}  
25  
26// Concrete method for second dose  
27public void secondDose(boolean firstDoseTaken) {  
28 if (firstDoseTaken) {  
29 System.out.println("You are eligible for the second dose.");  
30 } else {  
31 System.out.println("You cannot take the second dose until you complete the first do  
32 }  
33}  
34  
35// Abstract method for booster dose  
36public abstract void boosterDose();  
--

Outline X

lab9  
Vaccine  
 age: int  
 nationality: String  
 Vaccine(int, String)  
 firstDose(): void  
 secondDose(boolean): void  
 boosterDose(): void  
VaccinationSuccessful  
 VaccinationSuccessful(int, String)  
 boosterDose(): void

ProblemsJavadocDeclarationConsole X

<terminated> mee [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, 6:57:33 pm - 6:  
You are eligible for the first dose.  
You have to pay 450rs for the first dose.  
Payment made: 790rs 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.

```
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 |
```

lab9

- > Animal
- > Dog