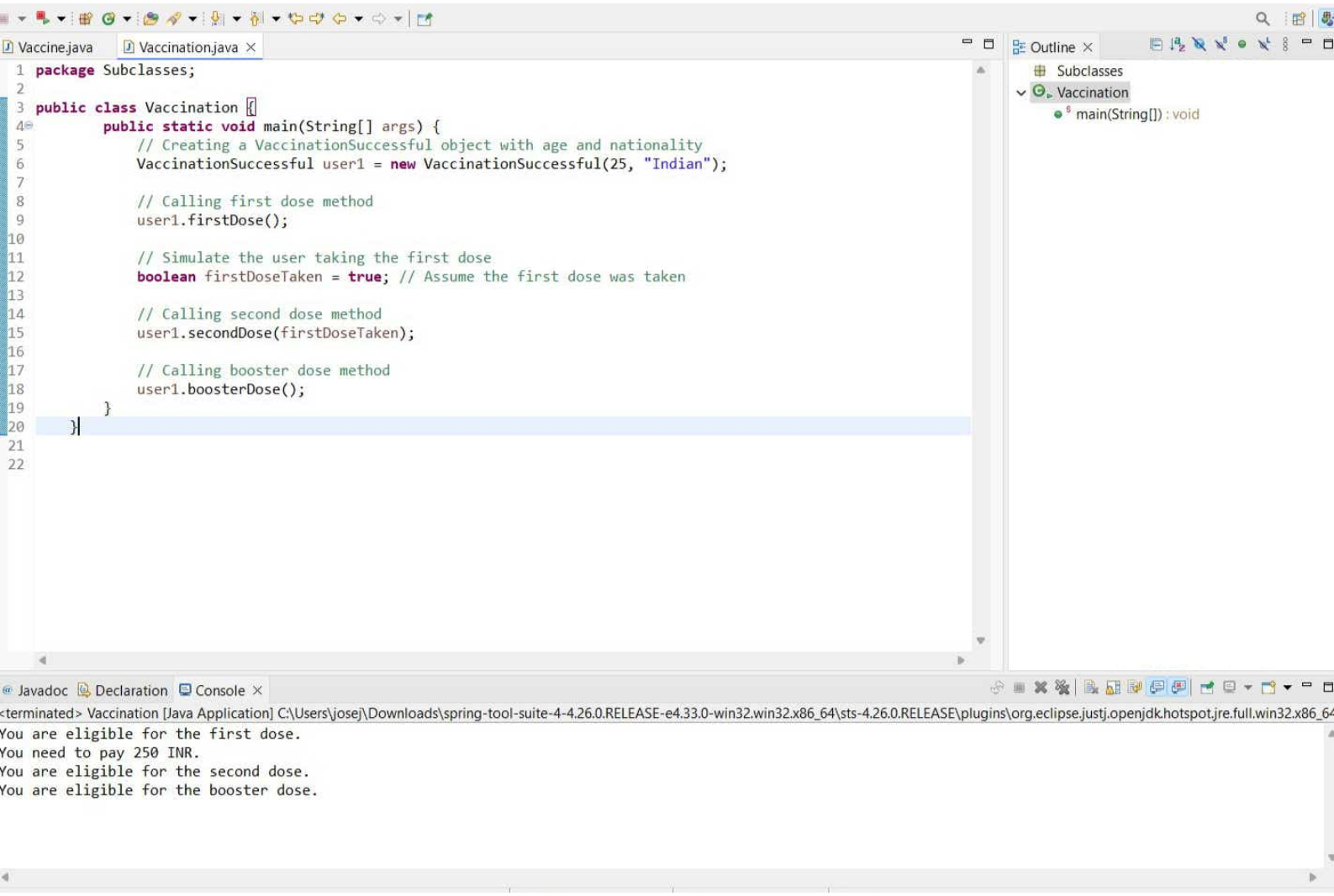
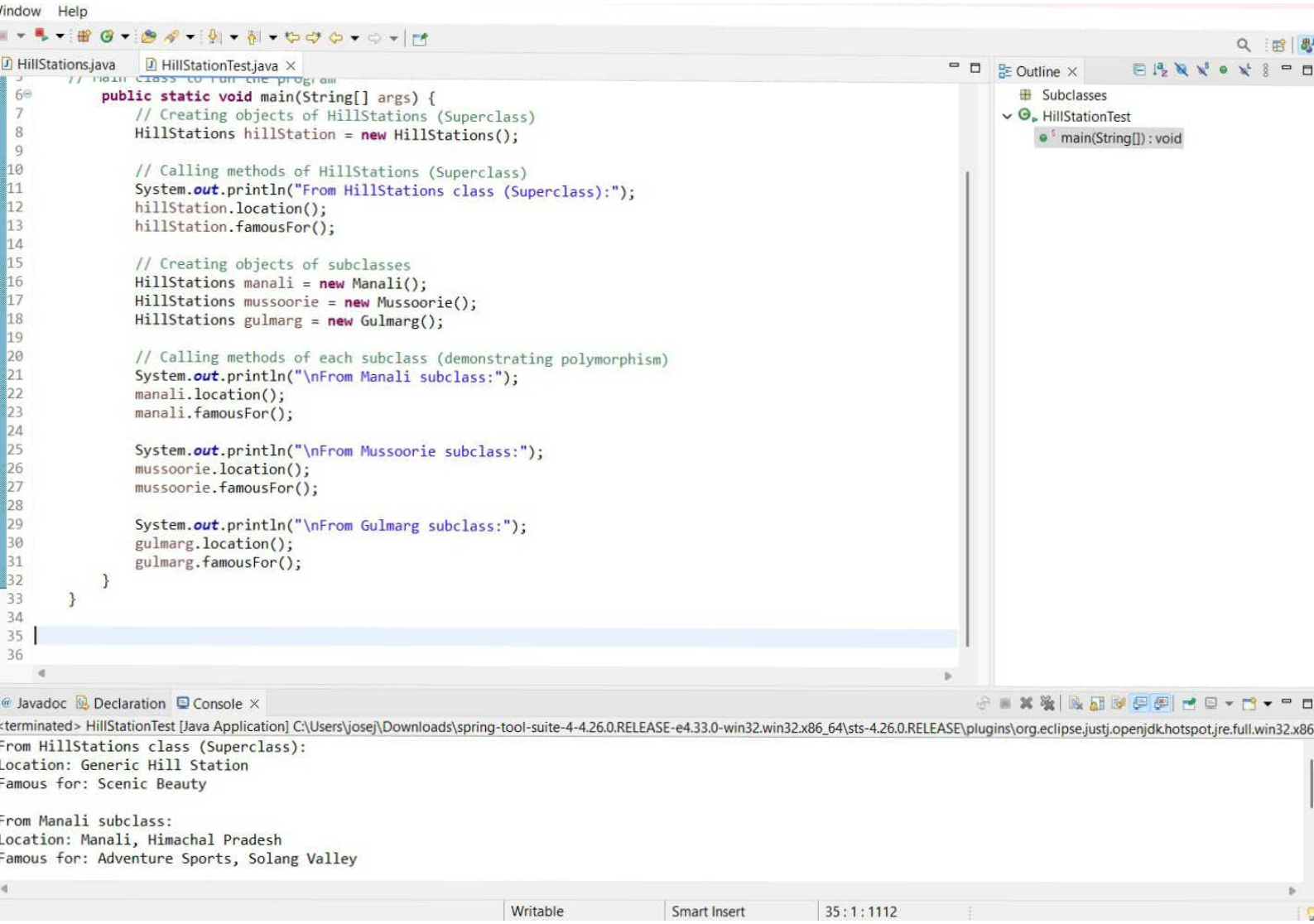
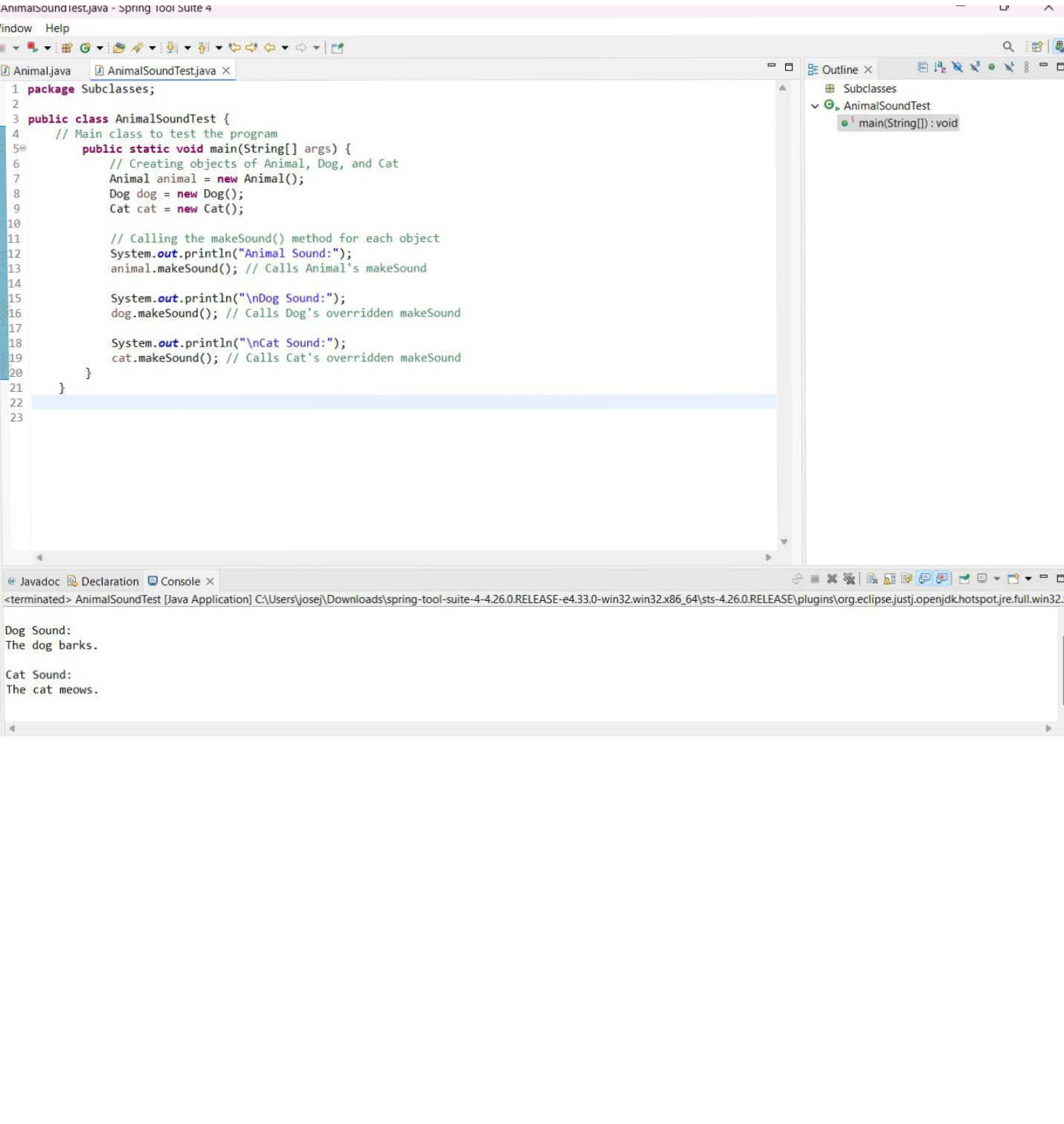
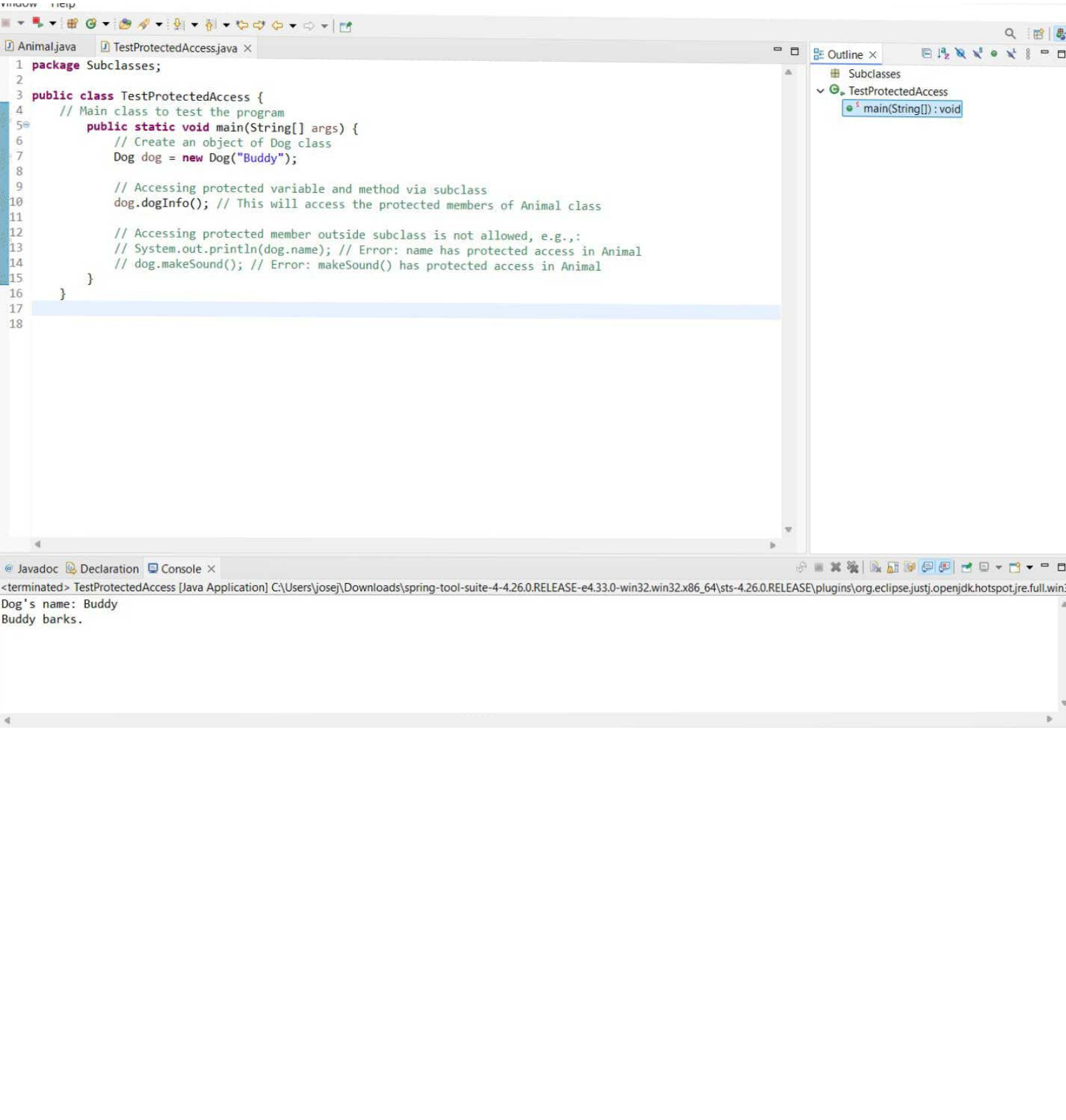

Vaccine.java
Vaccination.java
package Subclasses;
public class Vaccination {
public static void main(String[] args) {
// Creating a VaccinationSuccessful object with age and nationality
VaccinationSuccessful user1 = new VaccinationSuccessful(25, "Indian");
// Calling first dose method
user1.firstDose();
// Simulate the user taking the first dose
boolean firstDoseTaken = true; // Assume the first dose was taken
// Calling second dose method
user1.secondDose(firstDoseTaken);
// Calling booster dose method
user1.boosterDose();
}
}
Outline
Subclasses
Vaccination
main(String[]) : void
Javadoc
Declaration
Console
<terminated> Vaccination [Java Application] C:\Users\josej\Downloads\spring-tool-suite-4-4.26.0.RELEASE-e4.33.0-win32.win32.x86_64\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64
You are eligible for the first dose.
You need to pay 250 INR.
You are eligible for the second dose.
You are eligible for the booster dose.


Window Help
HillStations.java
HillStationTest.java
// Main class to run the program
public static void main(String[] args) {
// Creating objects of HillStations (Superclass)
HillStations hillStation = new HillStations();
// Calling methods of HillStations (Superclass)
System.out.println("From HillStations class (Superclass):");
hillStation.location();
hillStation.famousFor();
// Creating objects of subclasses
HillStations manali = new Manali();
HillStations mussoorie = new Mussoorie();
HillStations gulmarg = new Gulmarg();
// Calling methods of each subclass (demonstrating polymorphism)
System.out.println("\nFrom Manali subclass:");
manali.location();
manali.famousFor();
System.out.println("\nFrom Mussoorie subclass:");
mussoorie.location();
mussoorie.famousFor();
System.out.println("\nFrom Gulmarg subclass:");
gulmarg.location();
gulmarg.famousFor();
}
}
Outline
Subclasses
HillStationTest
main(String[]) : void
Javadoc
Declaration
Console
<terminated> HillStationTest [Java Application] C:\Users\josej\Downloads\spring-tool-suite-4-4.26.0.RELEASE-e4.33.0-win32.win32.x86_64\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86
From HillStations class (Superclass):
Location: Generic Hill Station
Famous for: Scenic Beauty
From Manali subclass:
Location: Manali, Himachal Pradesh
Famous for: Adventure Sports, Solang Valley
Writable
Smart Insert
35 : 1 : 1112


AnimalSoundTest.java - Spring Tool Suite 4
Window Help
Animal.java
AnimalSoundTest.java
1 package Subclasses;
2
3 public class AnimalSoundTest {
4 // Main class to test the program
5 public static void main(String[] args) {
6 // Creating objects of Animal, Dog, and Cat
7 Animal animal = new Animal();
8 Dog dog = new Dog();
9 Cat cat = new Cat();
10
11 // Calling the makeSound() method for each object
12 System.out.println("Animal Sound:");
13 animal.makeSound(); // Calls Animal's makeSound
14
15 System.out.println("\nDog Sound:");
16 dog.makeSound(); // Calls Dog's overridden makeSound
17
18 System.out.println("\nCat Sound:");
19 cat.makeSound(); // Calls Cat's overridden makeSound
20 }
21 }
22
23
Outline
Subclasses
AnimalSoundTest
main(String[]) : void
Javadoc Declaration Console
<terminated> AnimalSoundTest [Java Application] C:\Users\josej\Downloads\spring-tool-suite-4-4.26.0.RELEASE-e4.33.0-win32.win32.x86_64\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.
Dog Sound:
The dog barks.
Cat Sound:
The cat meows.


Animal.java
TestProtectedAccess.java
1 package Subclasses;
2
3 public class TestProtectedAccess {
4 // Main class to test the program
5 public static void main(String[] args) {
6 // Create an object of Dog class
7 Dog dog = new Dog("Buddy");
8
9 // Accessing protected variable and method via subclass
10 dog.dogInfo(); // This will access the protected members of Animal class
11
12 // Accessing protected member outside subclass is not allowed, e.g.,:
13 // System.out.println(dog.name); // Error: name has protected access in Animal
14 // dog.makeSound(); // Error: makeSound() has protected access in Animal
15 }
16 }
17
18
Outline
Subclasses
TestProtectedAccess
main(String[]) : void
Javadoc
Declaration
Console
<terminated> TestProtectedAccess [Java Application] C:\Users\josej\Downloads\spring-tool-suite-4-4.26.0.RELEASE-e4.33.0-win32.win32.x86_64\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win
Dog's name: Buddy
Buddy barks.