

```
2. public class AccessModifiersDemo {  
    public static void main(String[] args) {  
        Person person = new Person();  
        person.name = "John"; // public access modifier  
        // person.age = 25; // Compile time error due to private access modifier  
        person.setAge(25); // calling public method to set age  
        System.out.println("Name: " + person.name + ", Age: " + person.getAge());  
    }  
}
```

```
class Person {  
    public String name;  
    private int age;  
  
    public void setAge(int age) {  
        this.age = age;  
    }  
  
    public int getAge() {  
        return age;  
    }  
}
```

Output:

The screenshot shows the Eclipse IDE interface with the following components:

- Package Explorer:** Displays the project structure with packages `accessmodifiers` and `java1`. The `accessmodifiers` package contains `access2.java`, and `java1` contains `TypeCastingDemo.java`.
- Editor:** Shows the source code of `access2.java`. The code defines a `Person` class with a private `age` attribute and public `setAge` and `getAge` methods. A `main` method in the `accessmodifiers` package creates a `Person` object, sets its age to 25, and prints its name and age.
- Outline:** Shows the class hierarchy, including `accessmodifiers`, `access2`, and the `Person` class with its attributes and methods.
- Console:** Displays the output of the program: `Name: John, Age: 25`.

```
1 package accessmodifiers;
2
3 public class accessmodifiers {
4     public static void main(String[] args) {
5         Person person = new Person();
6         person.name = "John"; // public access modifier
7         // person.age = 25; // Compile time error due to private access modifier
8         person.setAge(25); // calling public method to set age
9         System.out.println("Name: " + person.name + ", Age: " + person.getAge());
10    }
11 }
12
13 class Person {
14     public String name;
15     private int age;
16
17     public void setAge(int age) {
18         this.age = age;
19     }
20
21     public int getAge() {
22         return age;
23     }
24 }
```

terminated: access2 [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (08-May-2023, 10:24:07 am - 10:24:16 am) [pid: 4748]
Name: John, Age: 25