**TECNICATURA UNIVERSITARIA EN PROGRAMACIÓN**

Modalidad a Distancia

Materia: Programación II

**Trabajo Práctico 5: Relaciones UML 1 a 1**

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DNI: 31058096

Docente: Luciano Chiroli

UTN

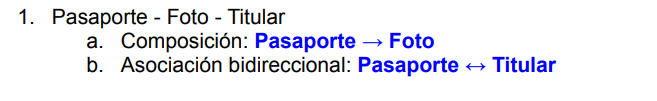
Ciclo Lectivo: 2025

Comisión: 7

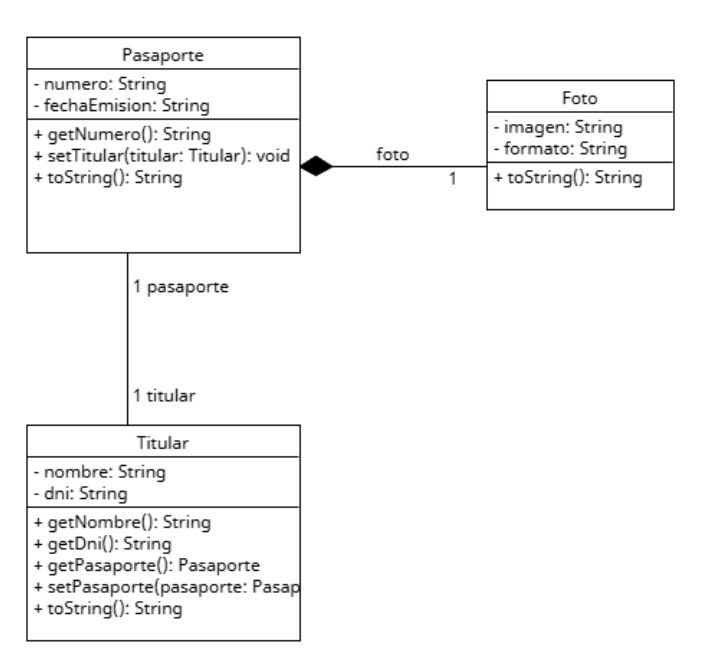
**Objetivo del trabajo**

Modelar clases con relaciones 1 a 1 utilizando diagramas UML, identificar el tipo de relación (asociación, agregación, composición, dependencia) y su dirección, y llevarlas a implementación en Java.

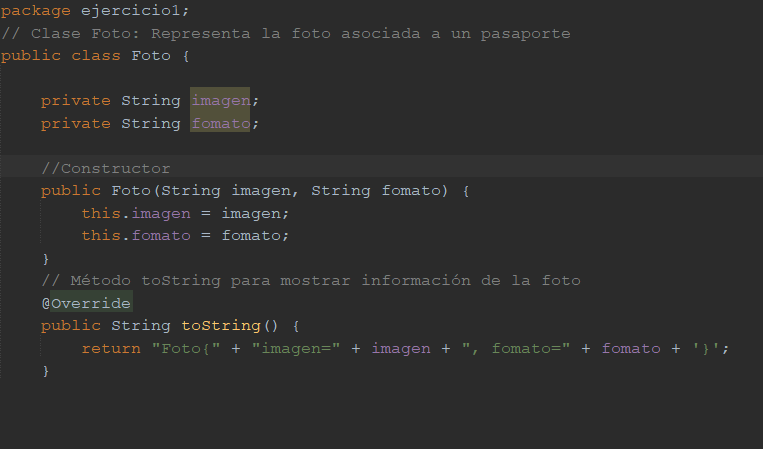
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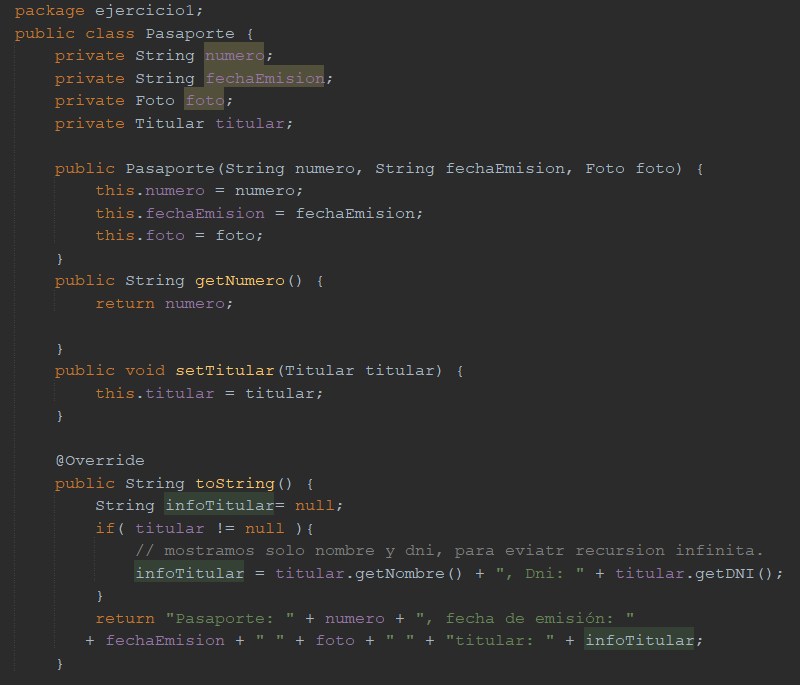
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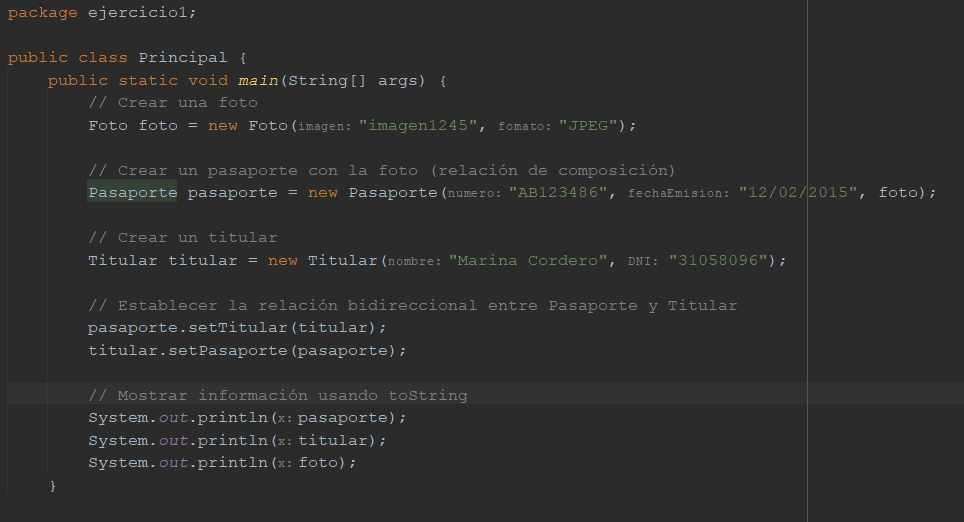


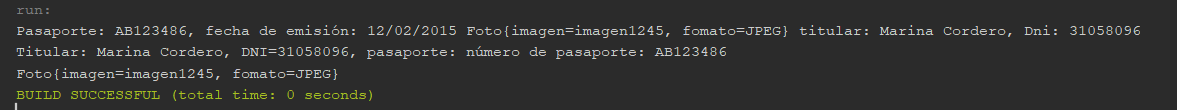
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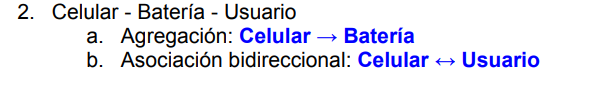


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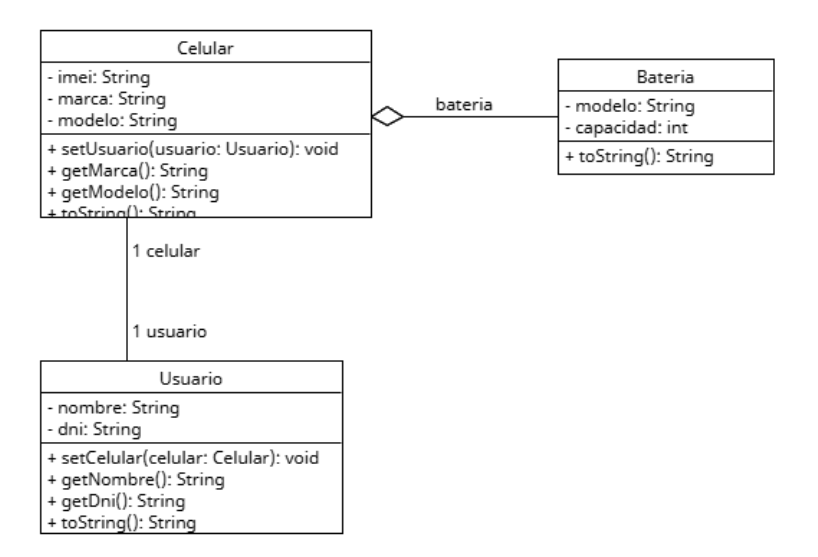
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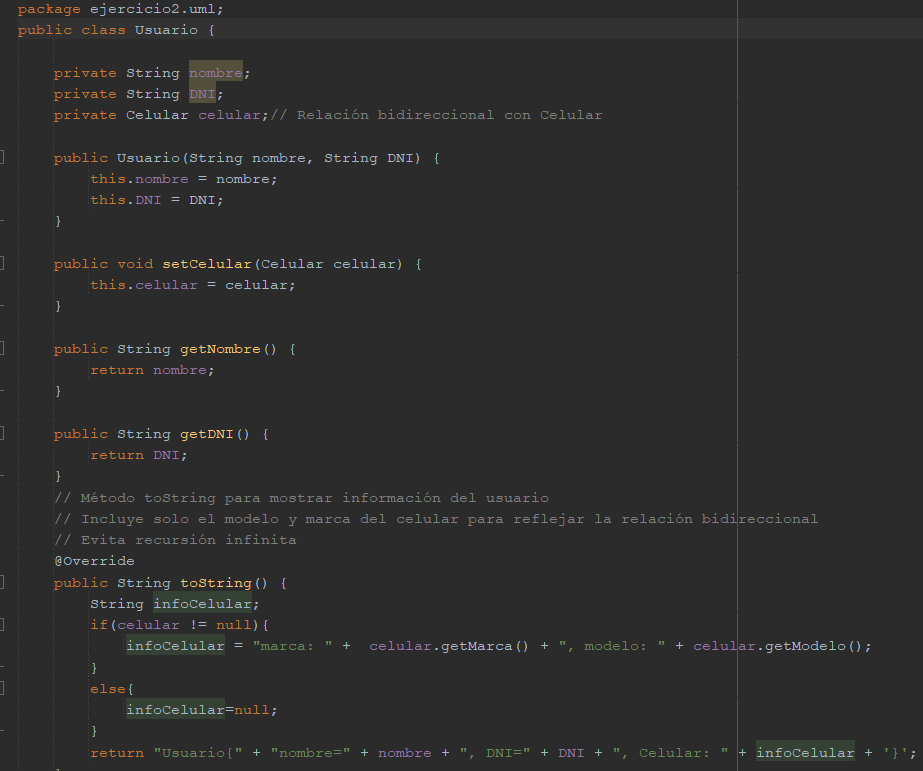


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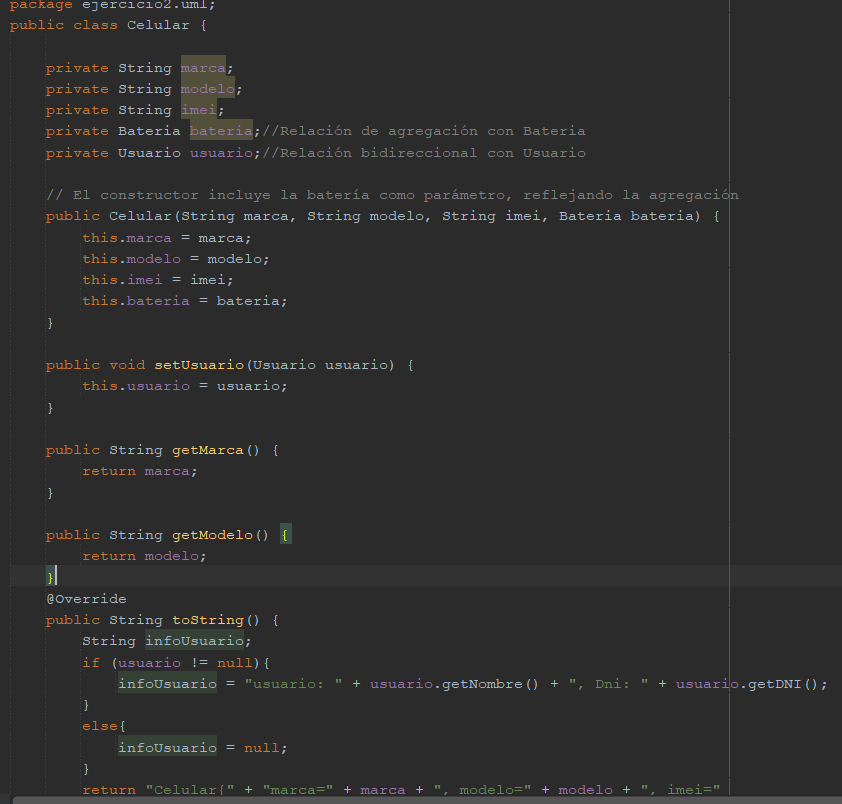
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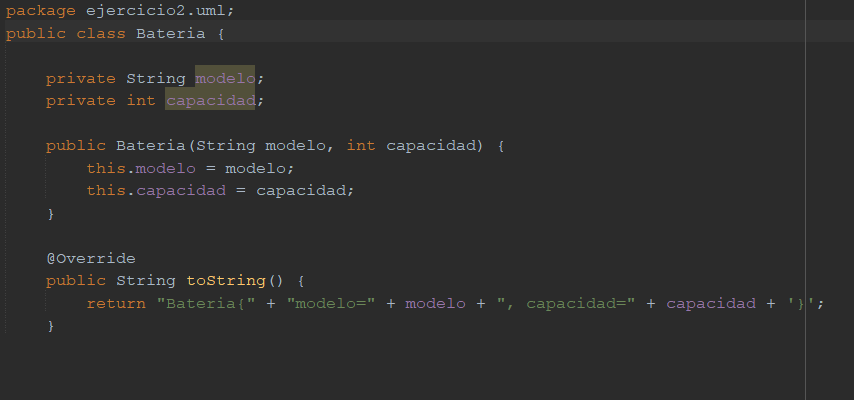
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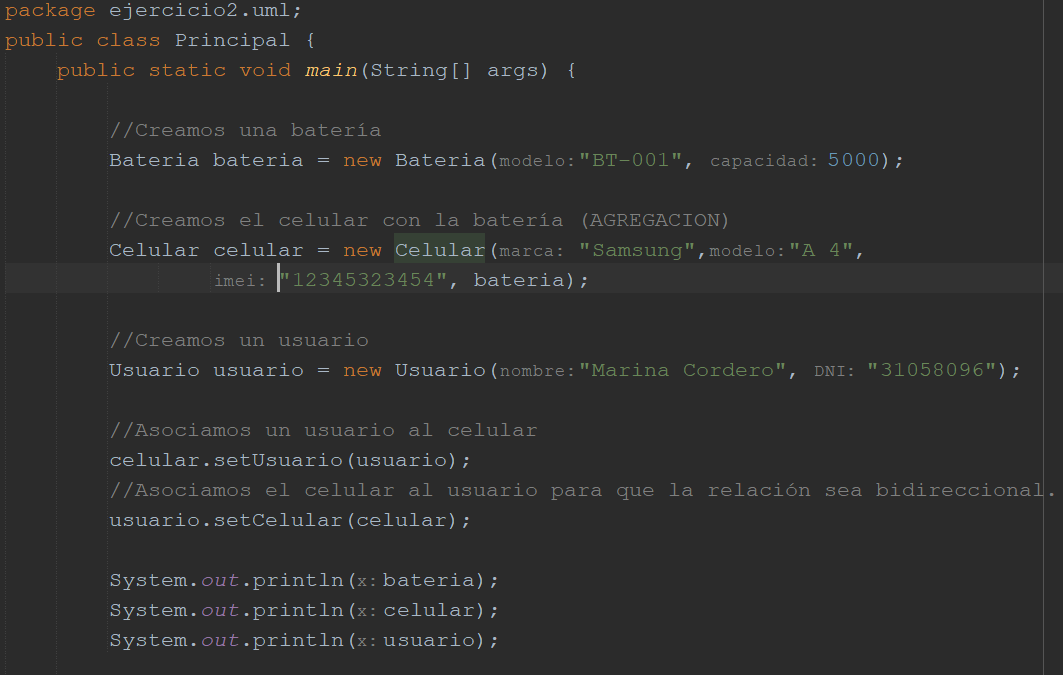
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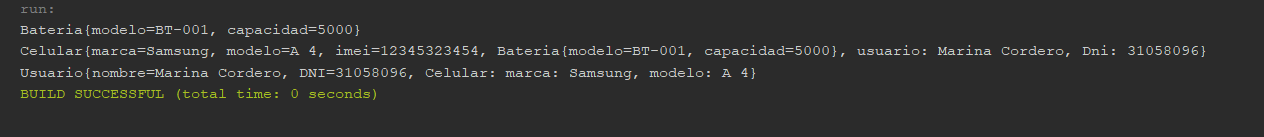
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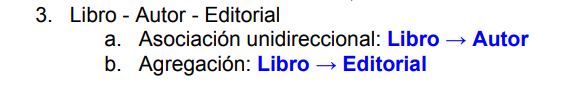
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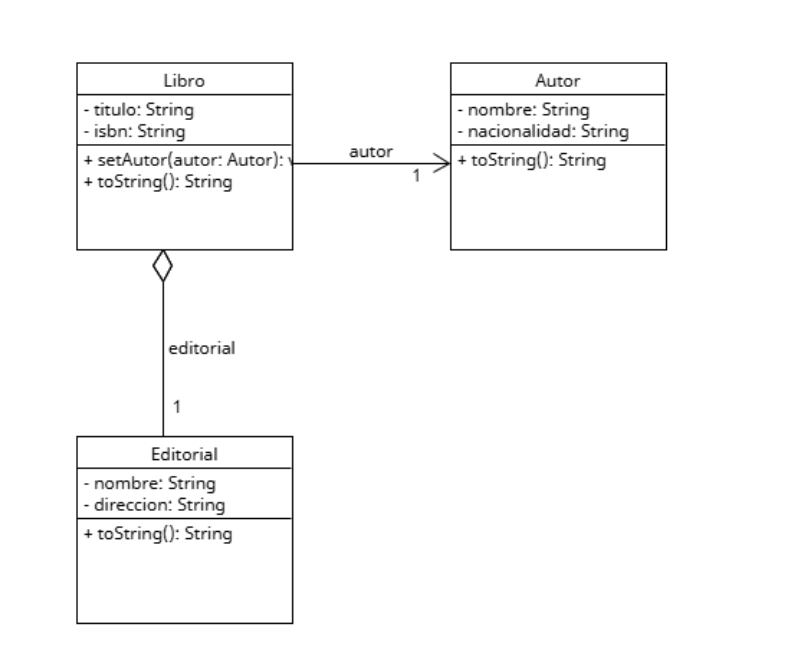
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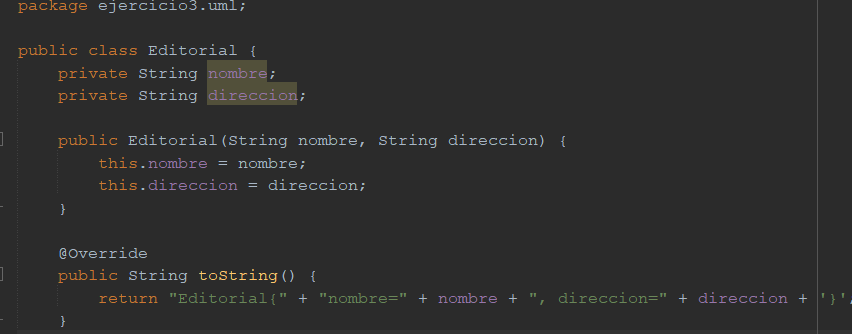


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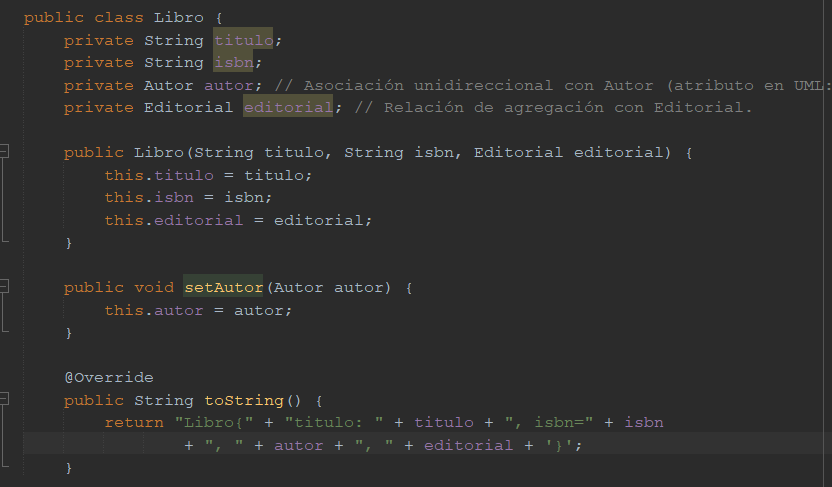
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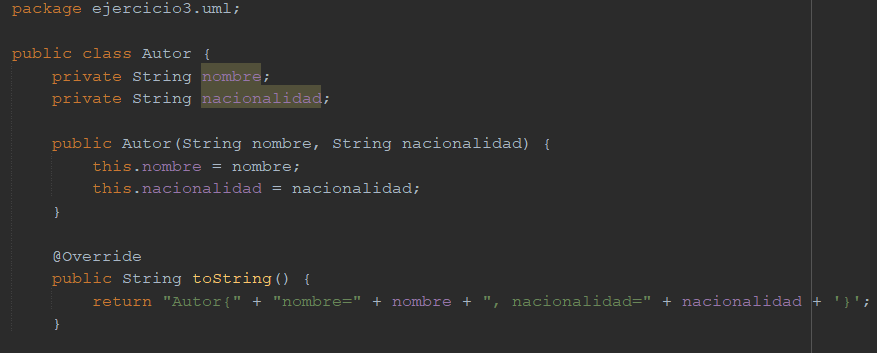
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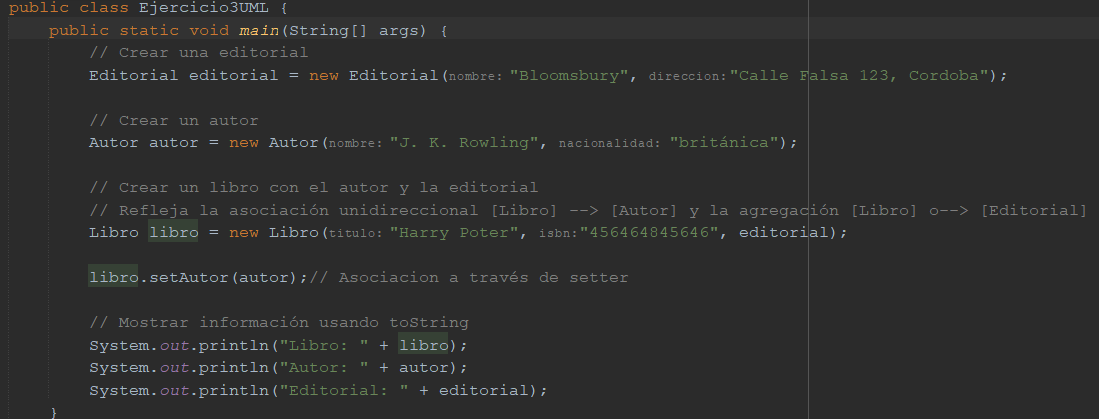
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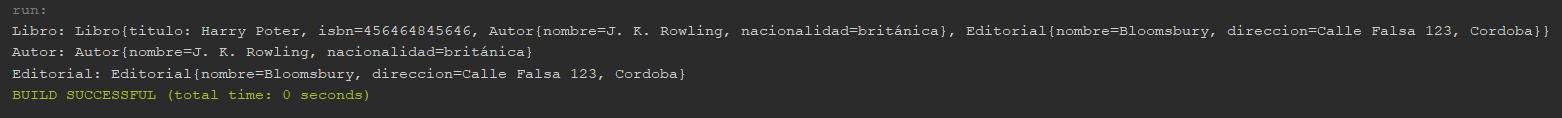
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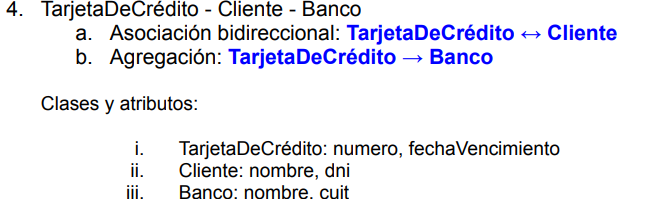
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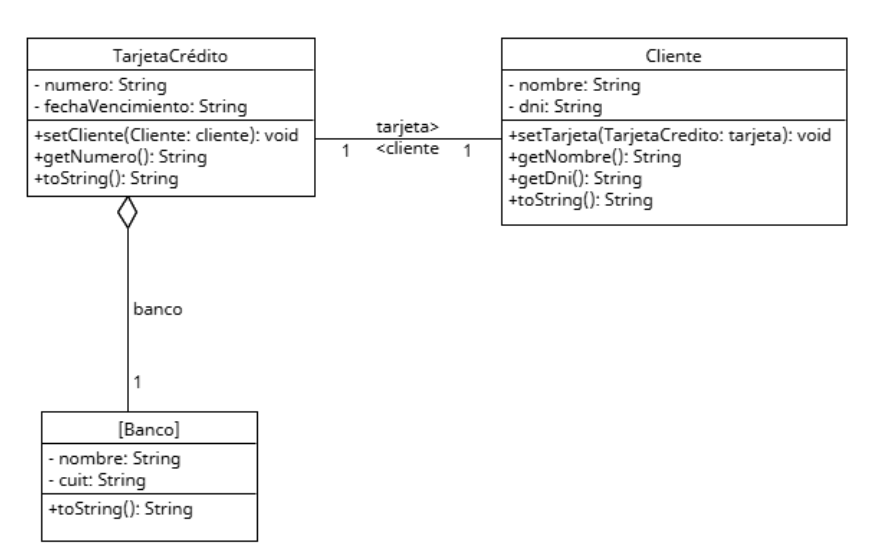
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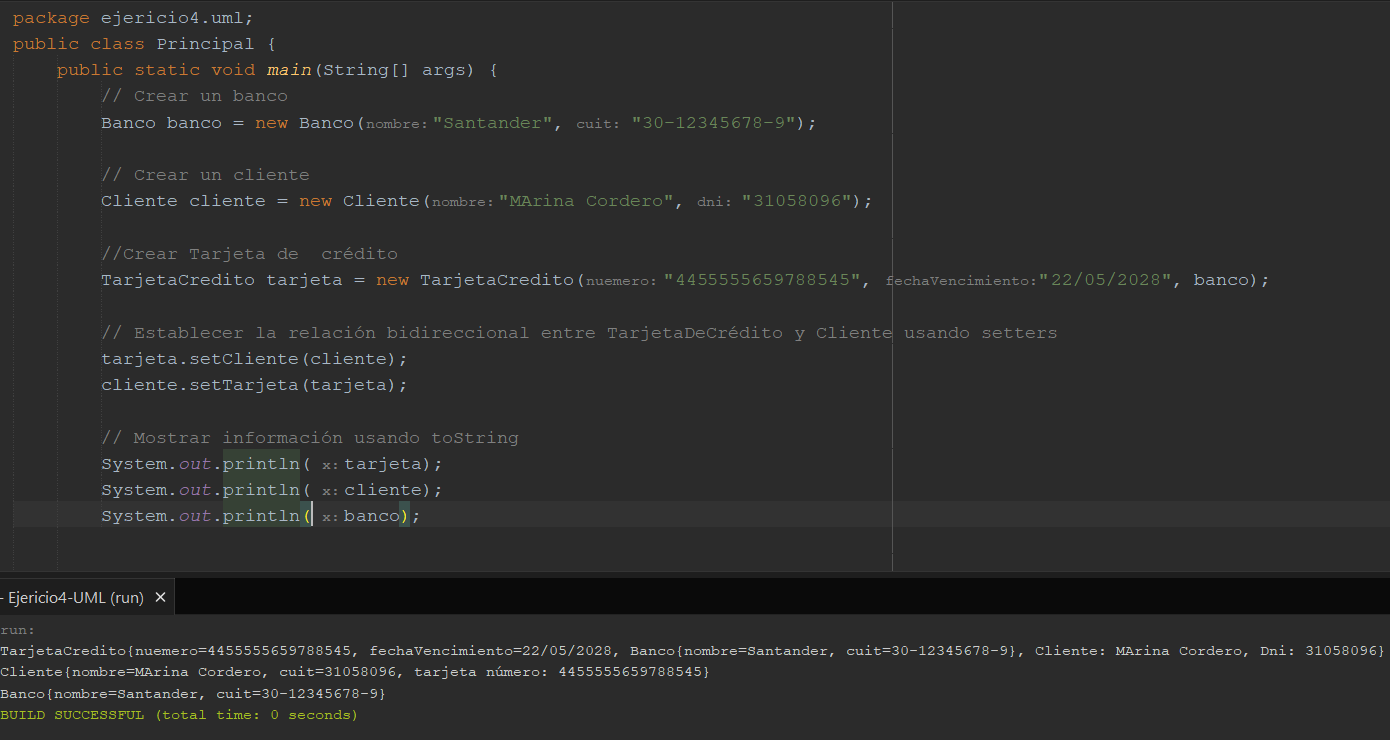
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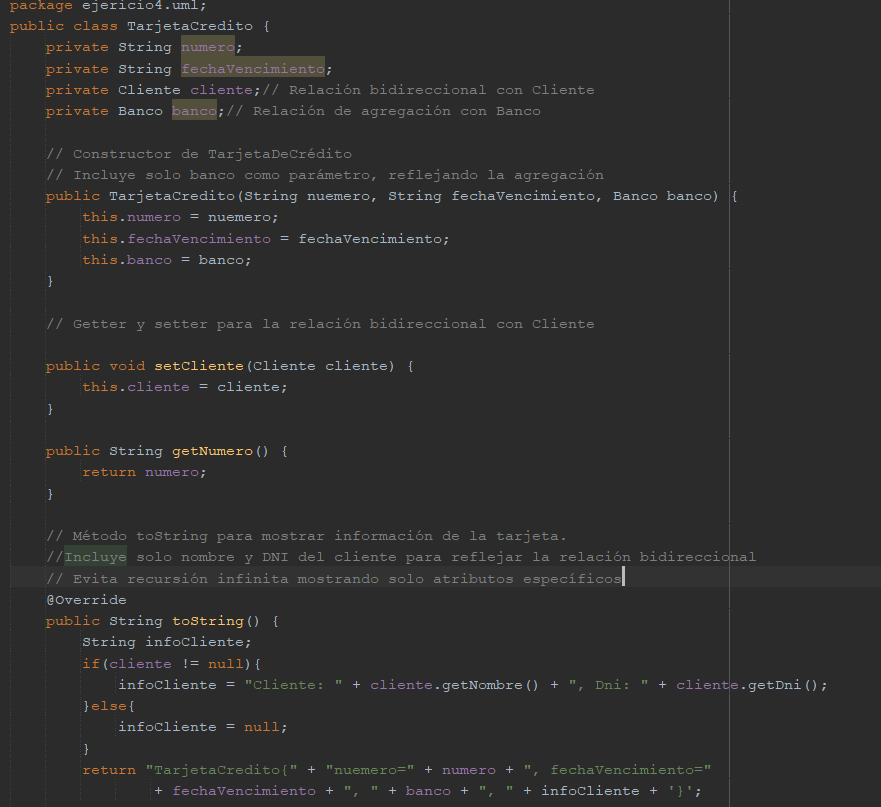
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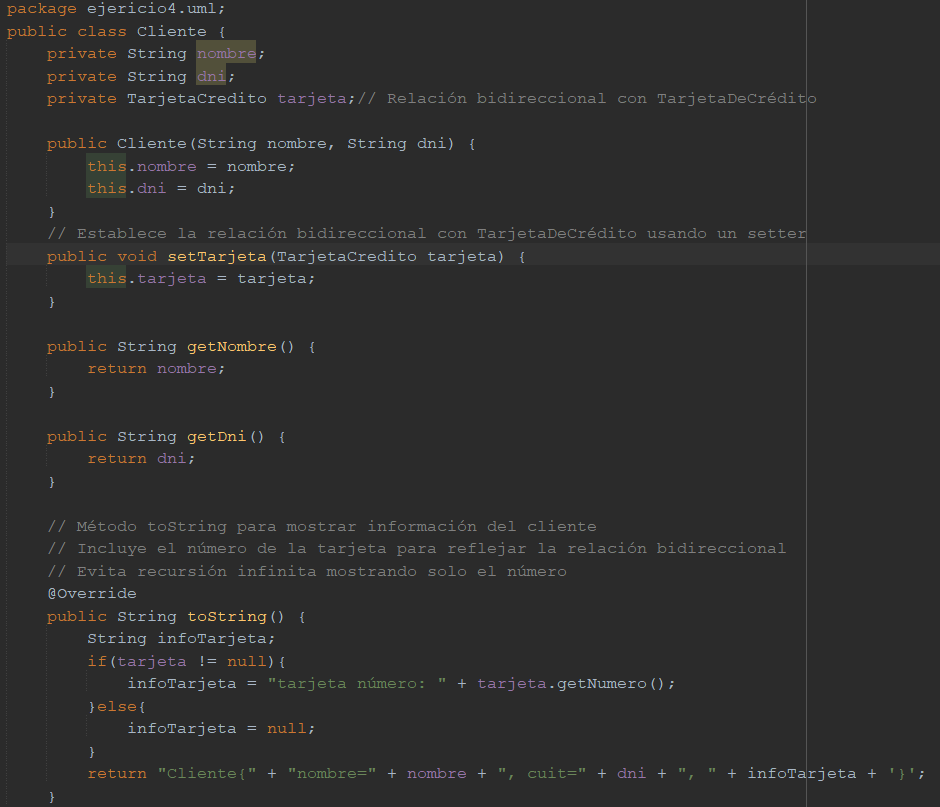
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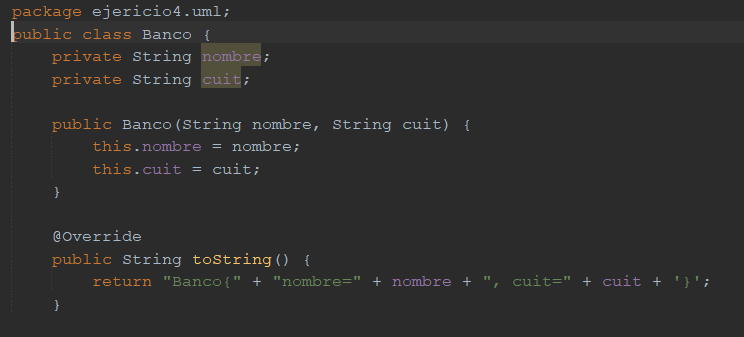
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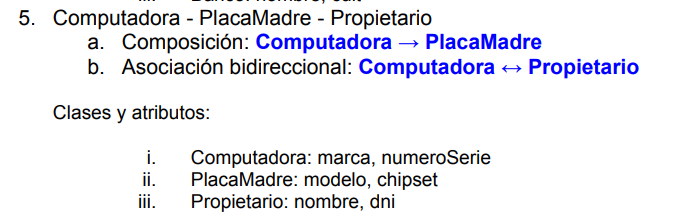
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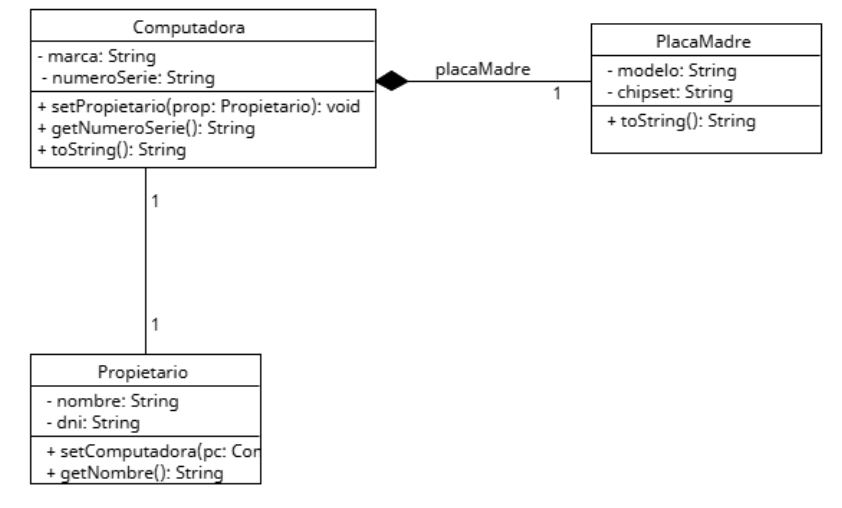
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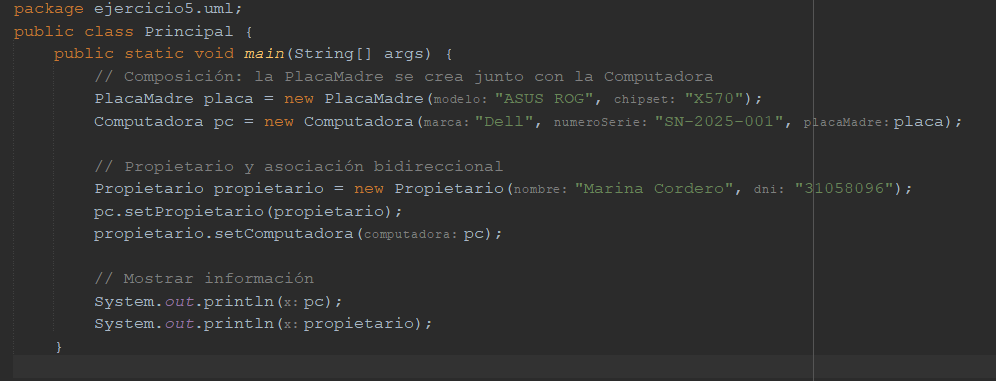
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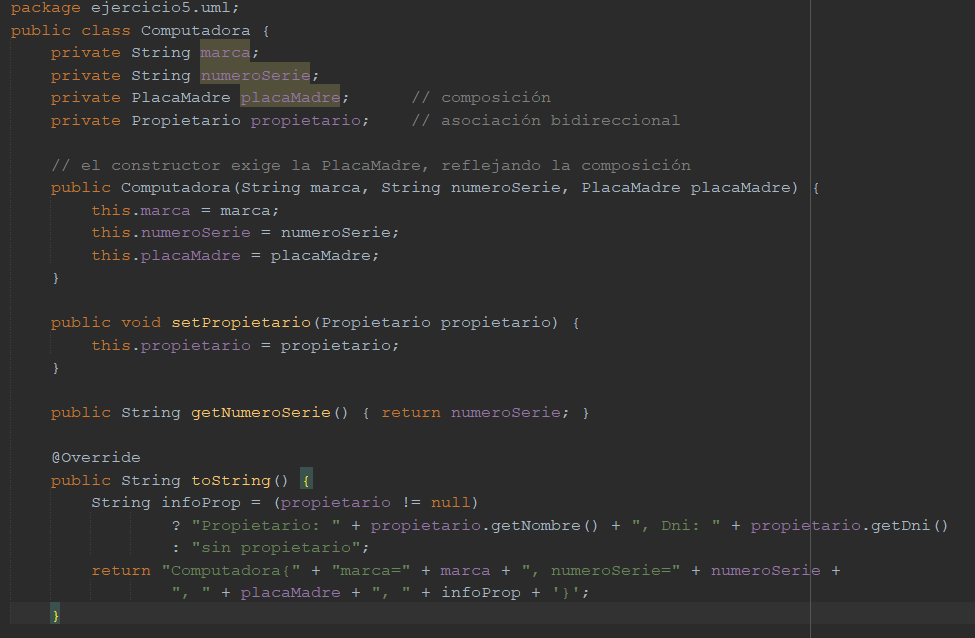
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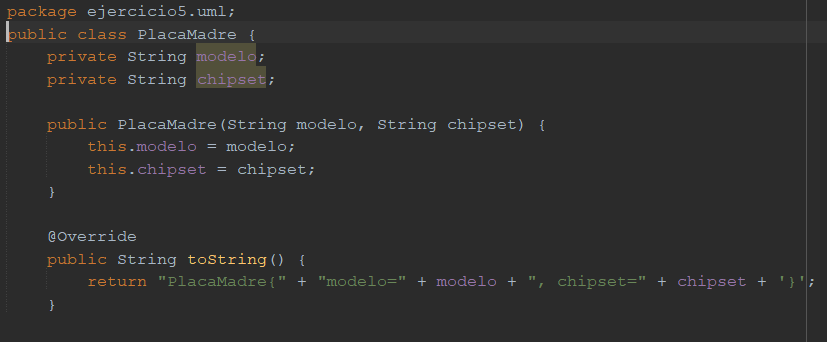
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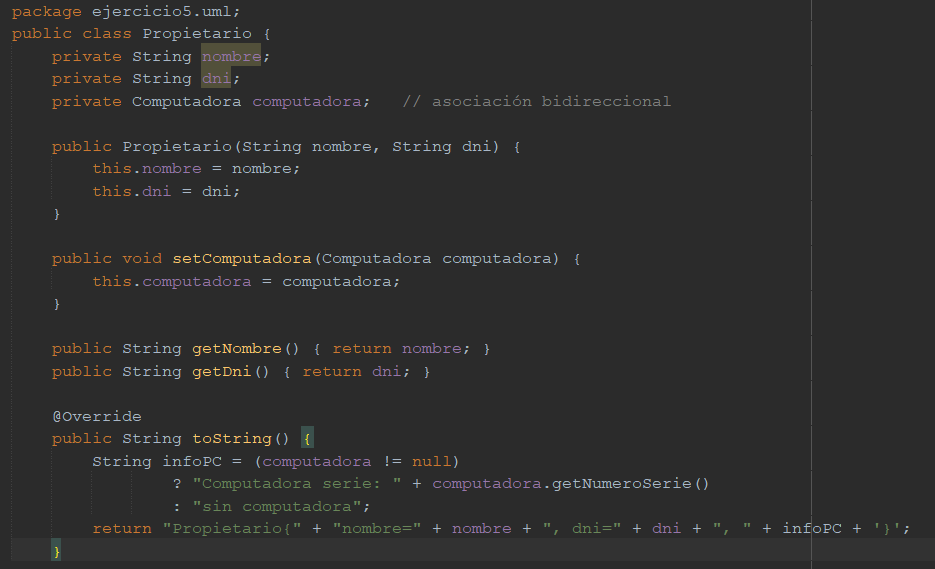
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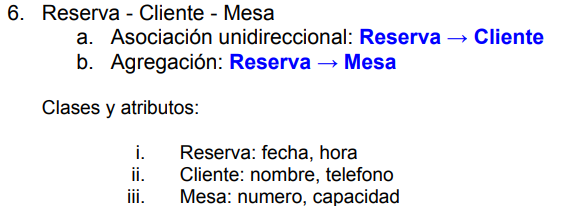
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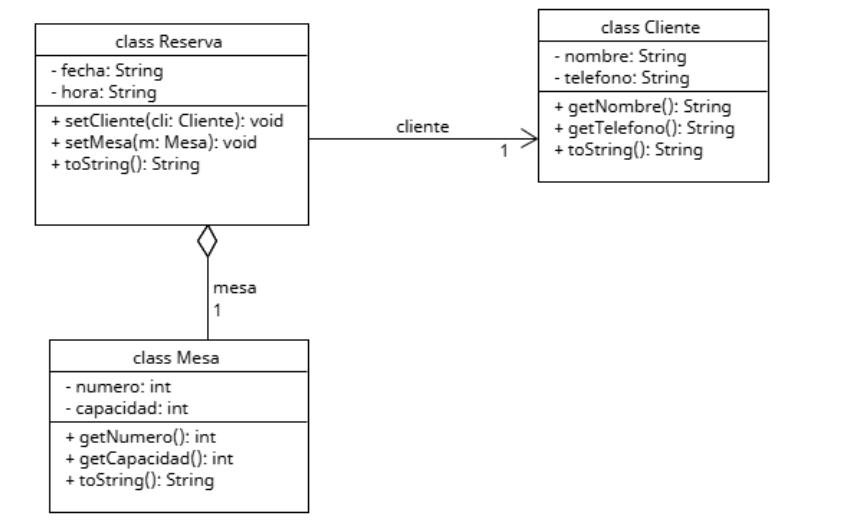
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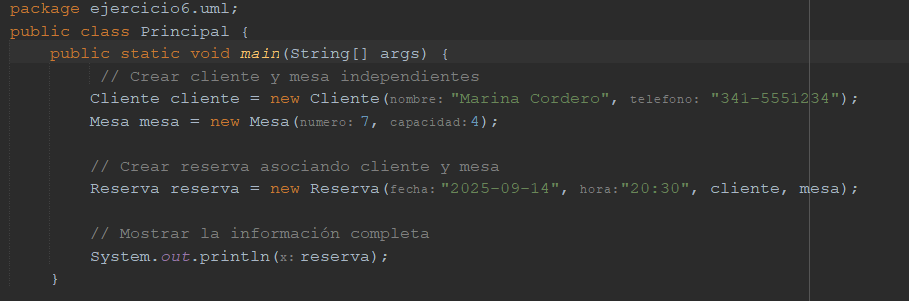
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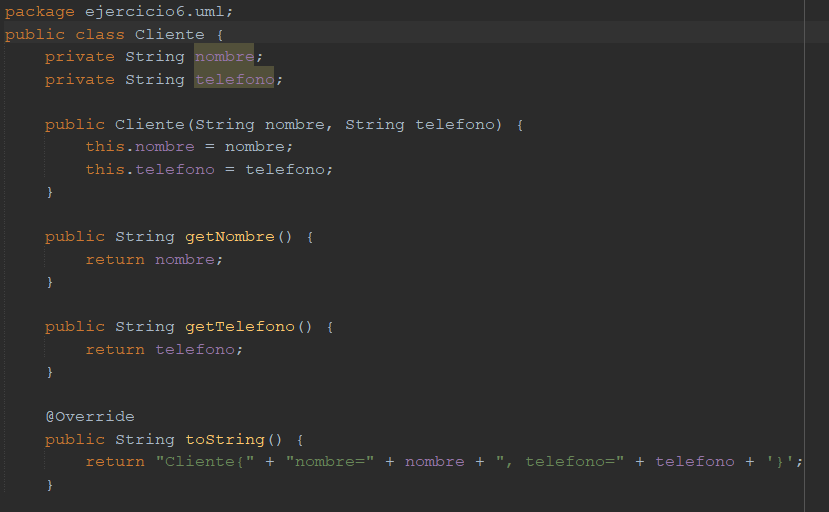
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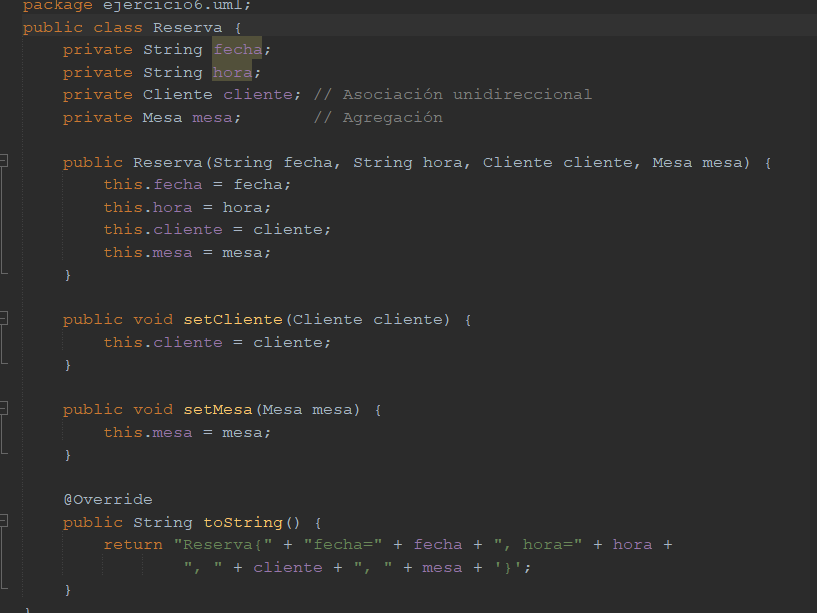
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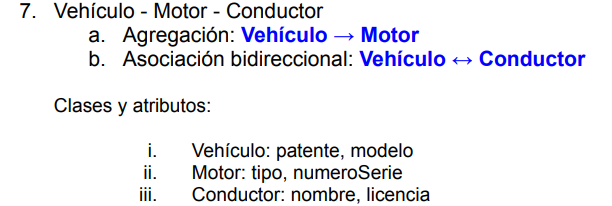
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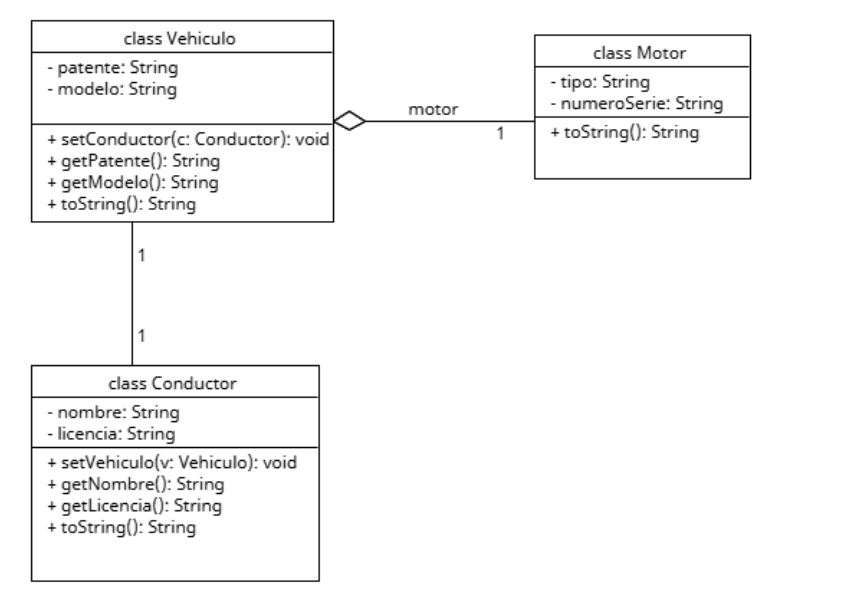
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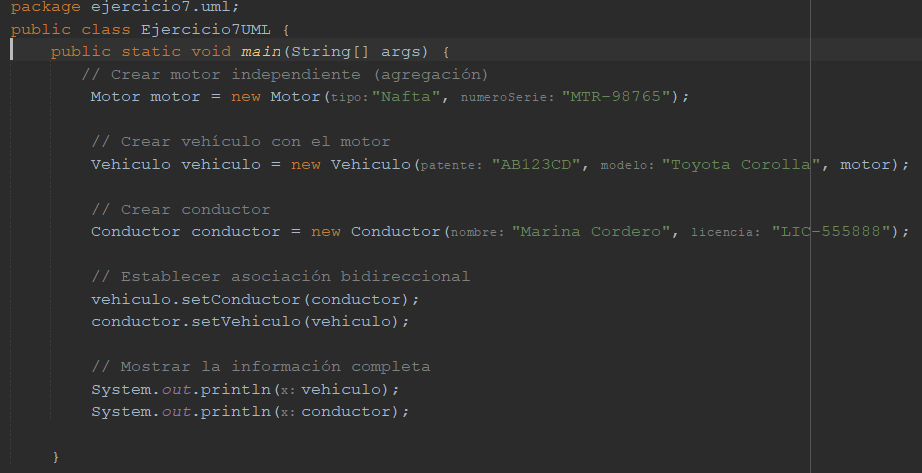
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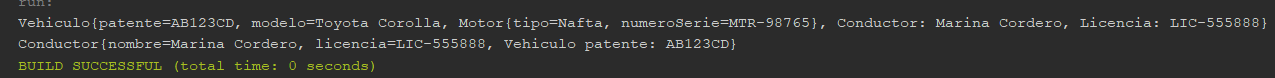
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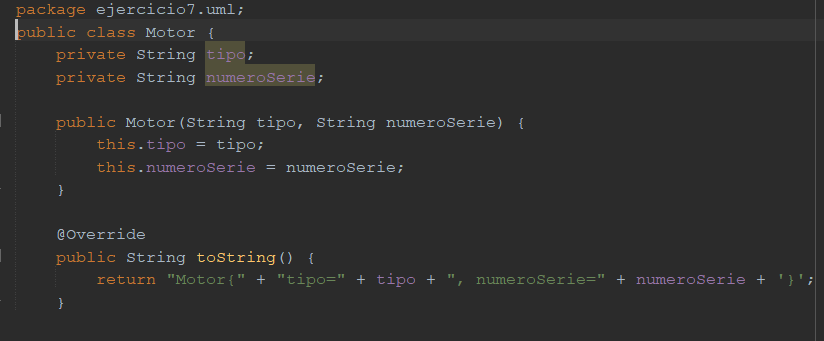
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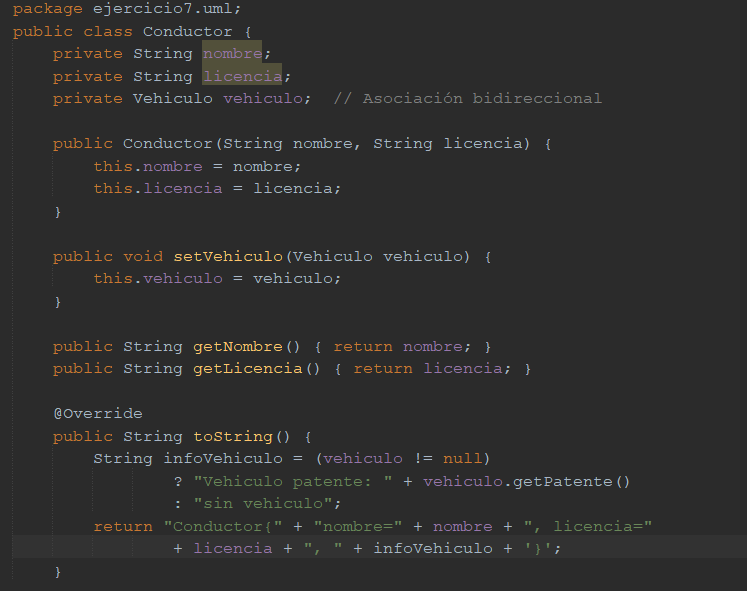
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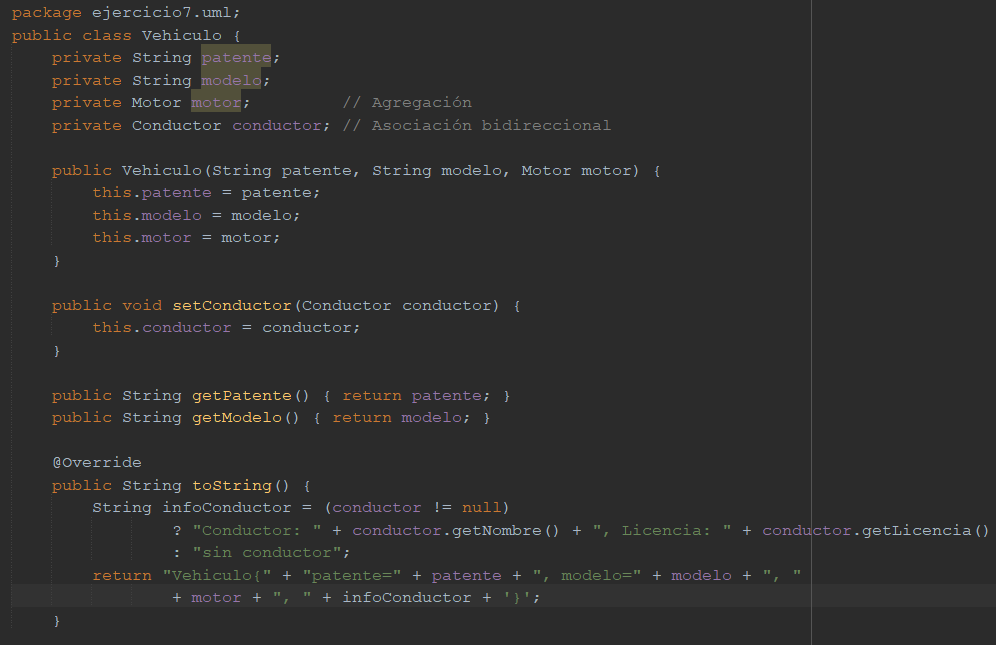
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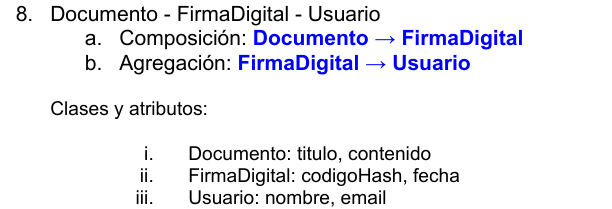
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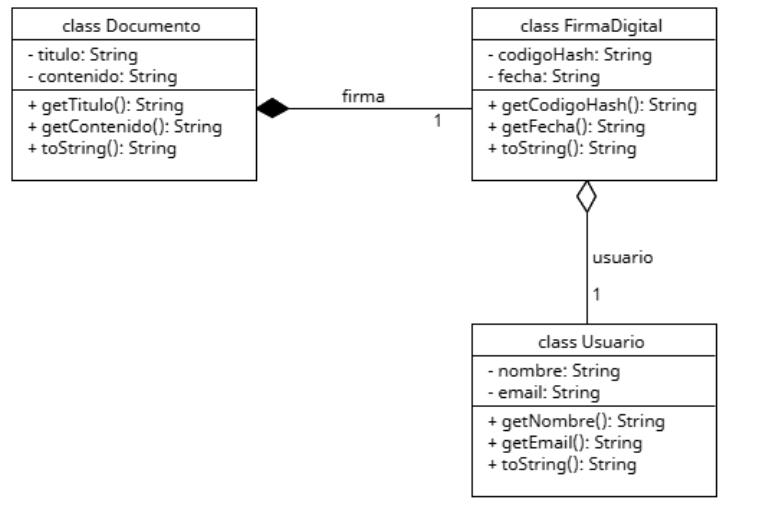
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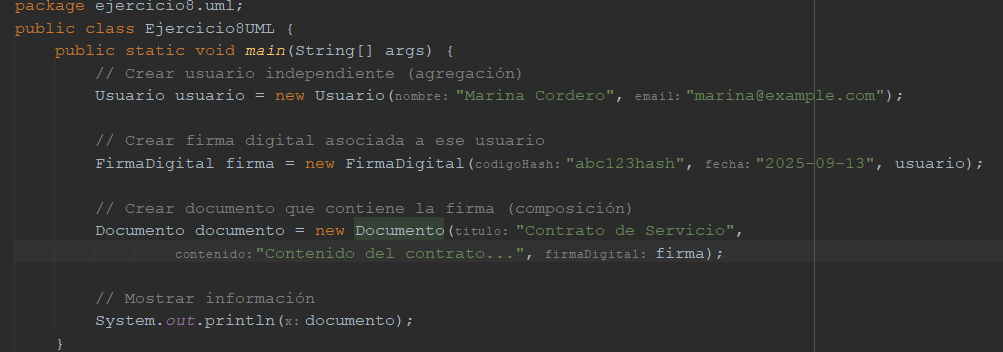
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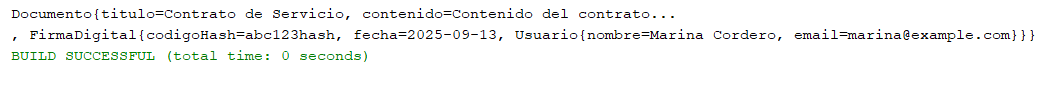
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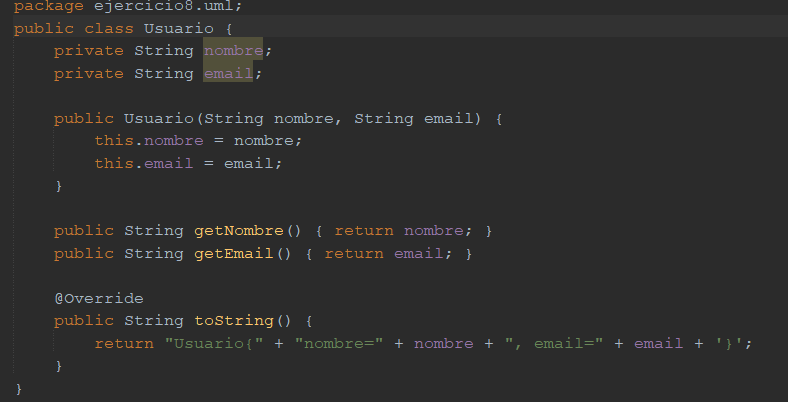
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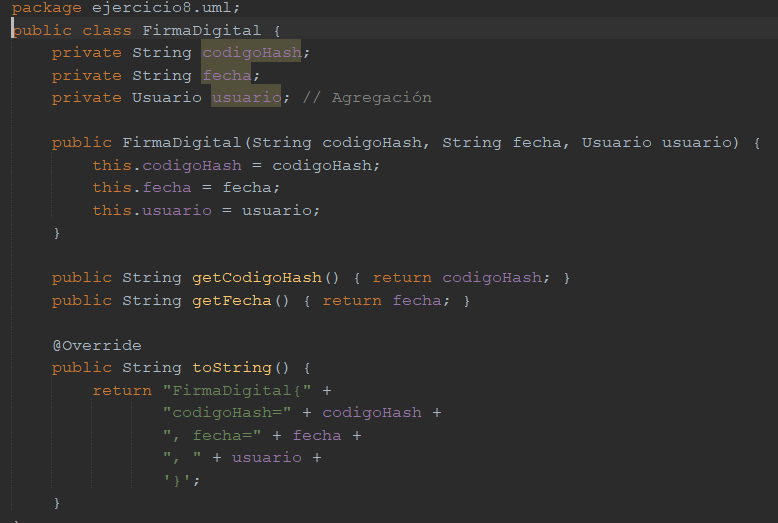
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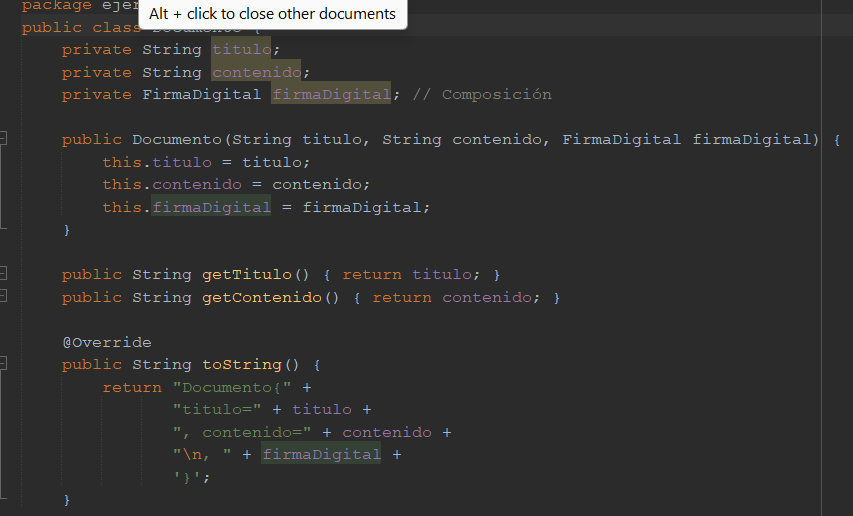
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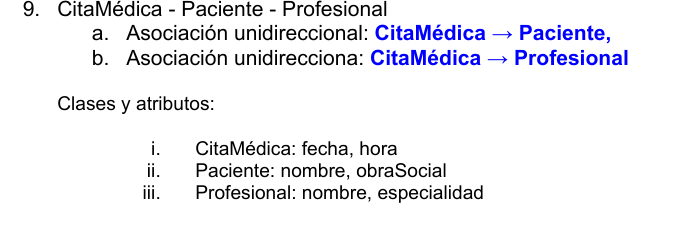
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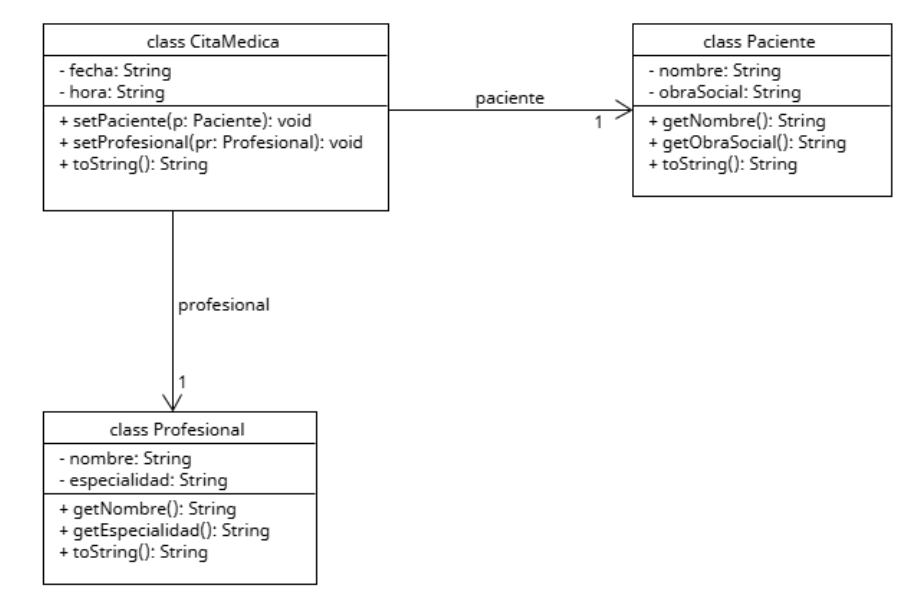
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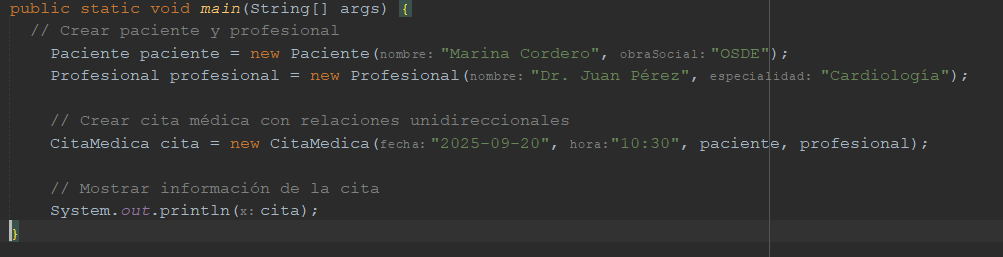
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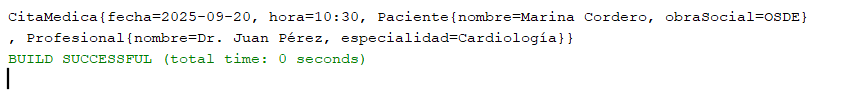
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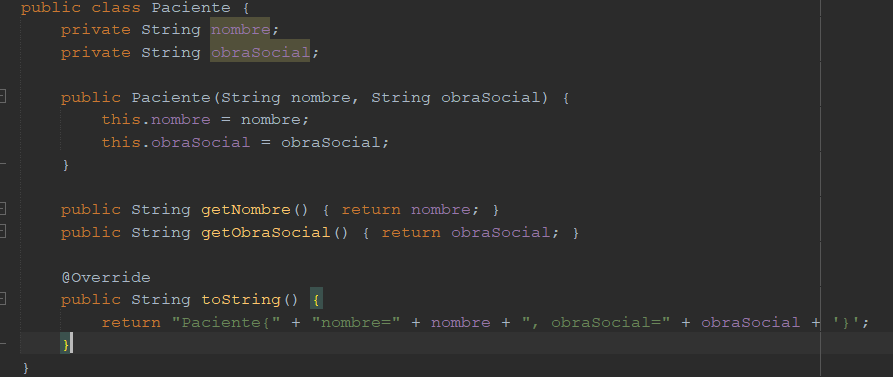
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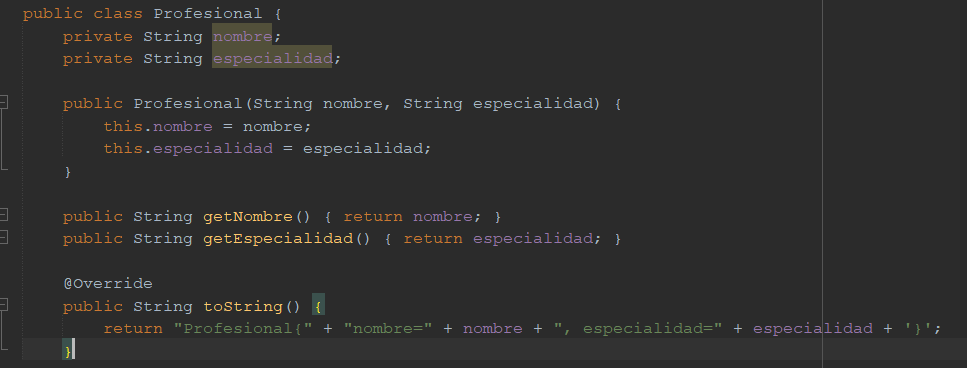
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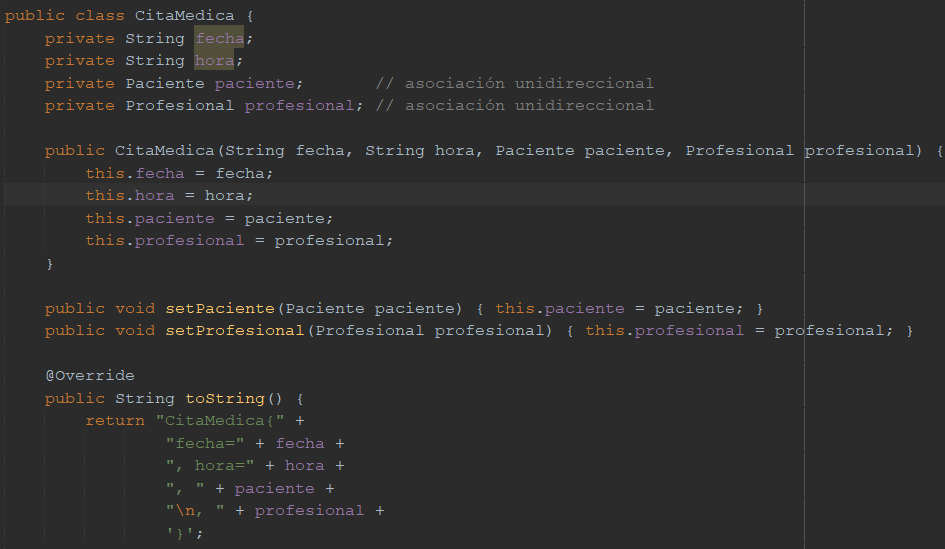
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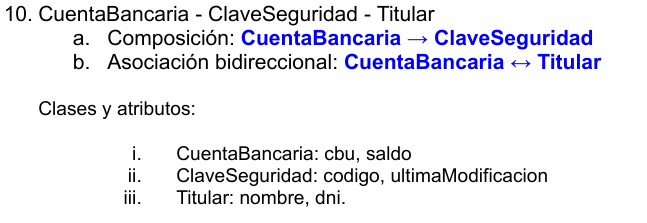
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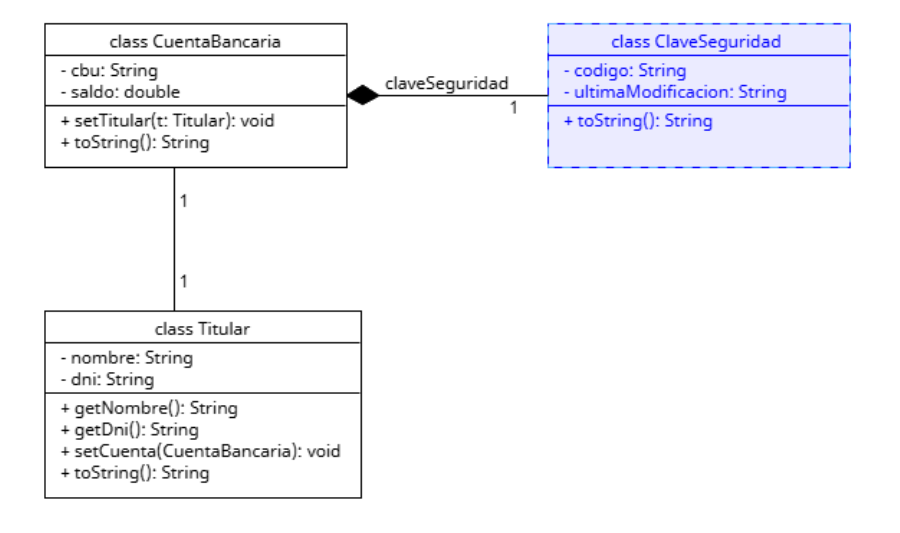
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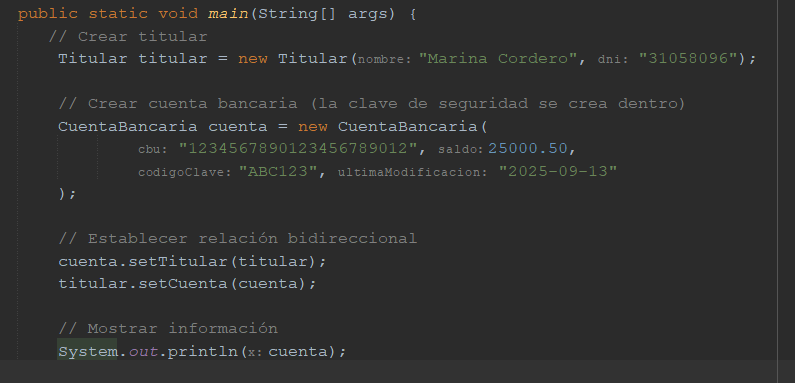
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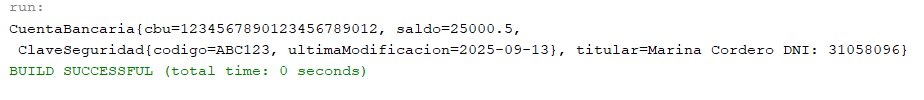
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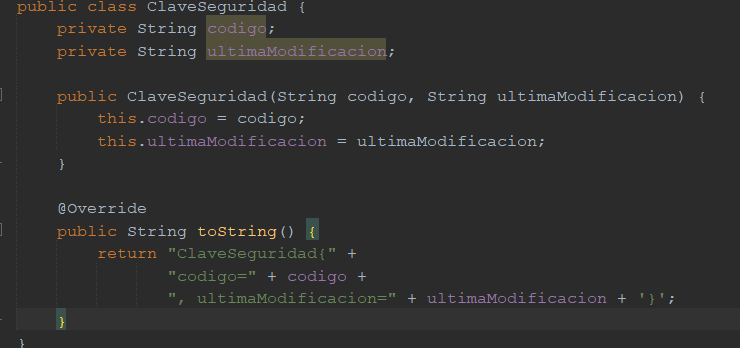
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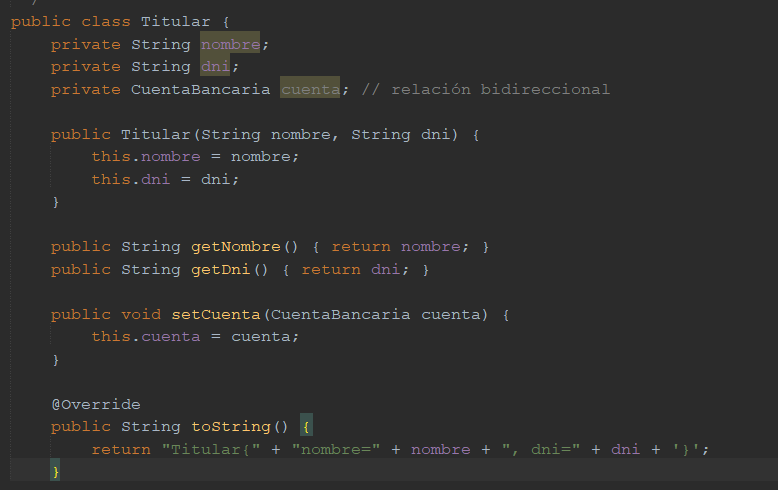
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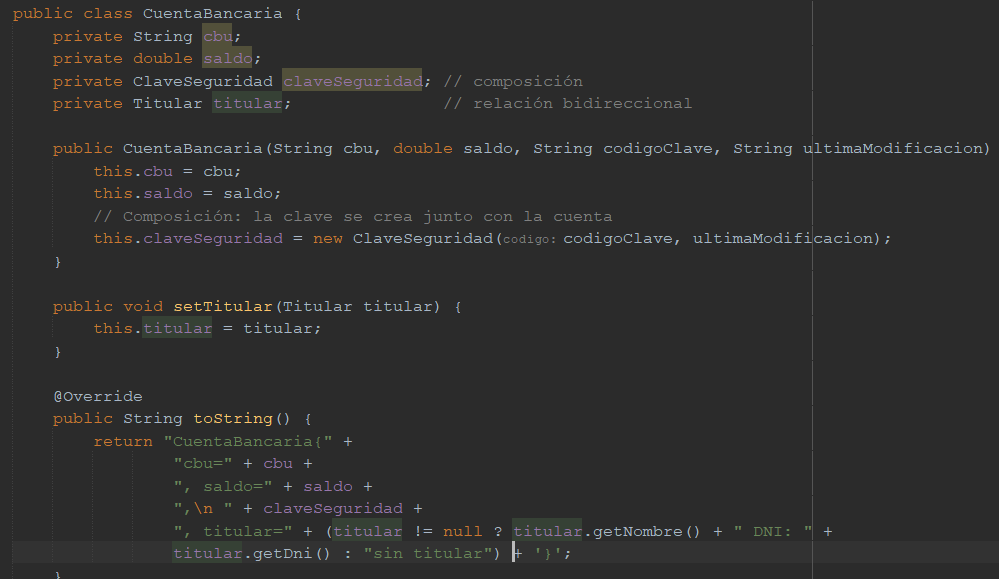
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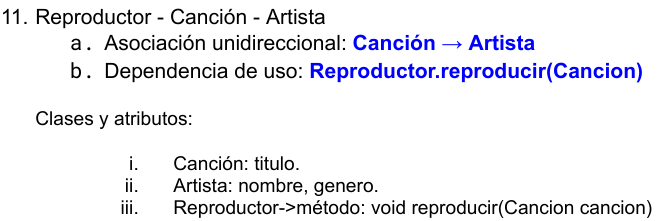
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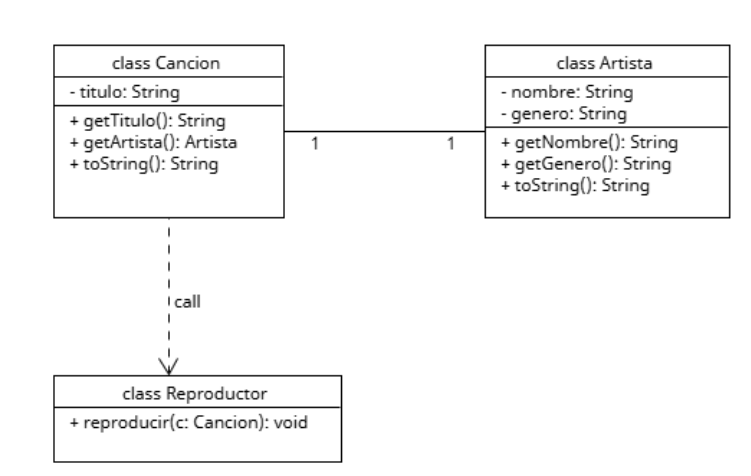
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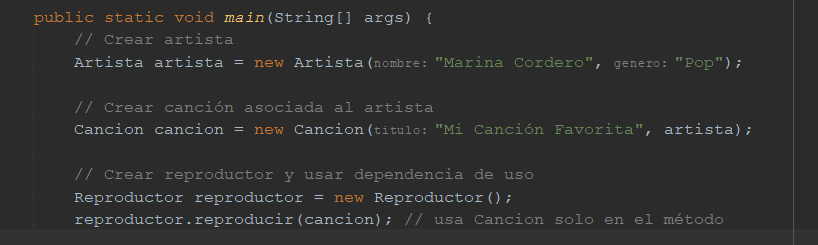
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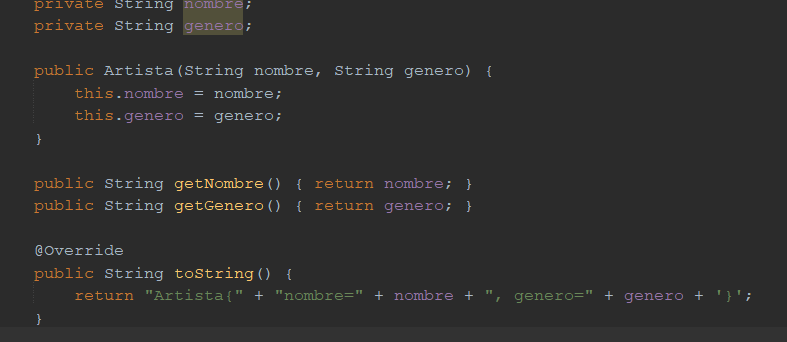
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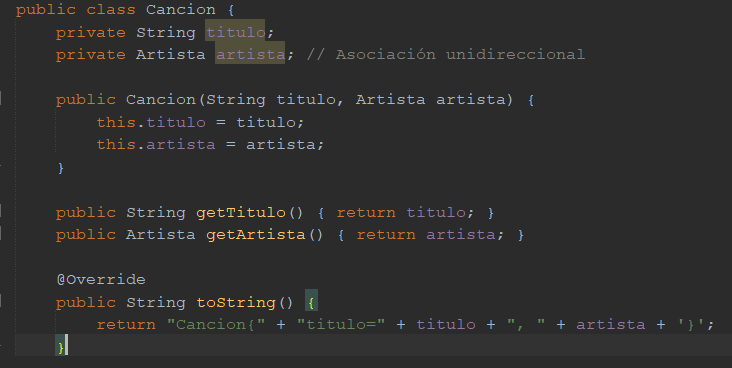
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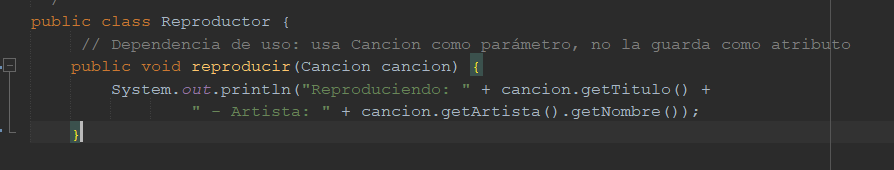
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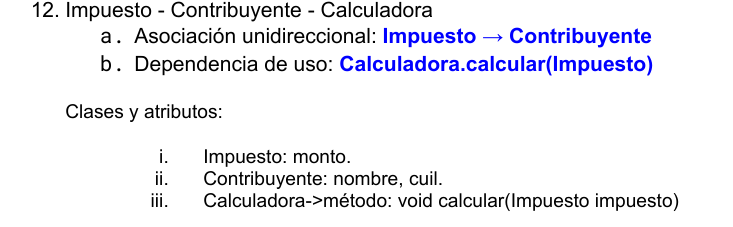
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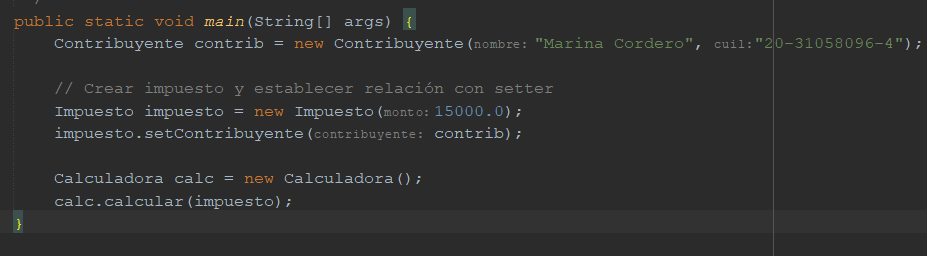
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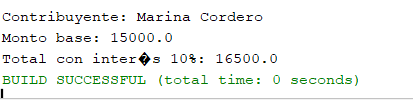
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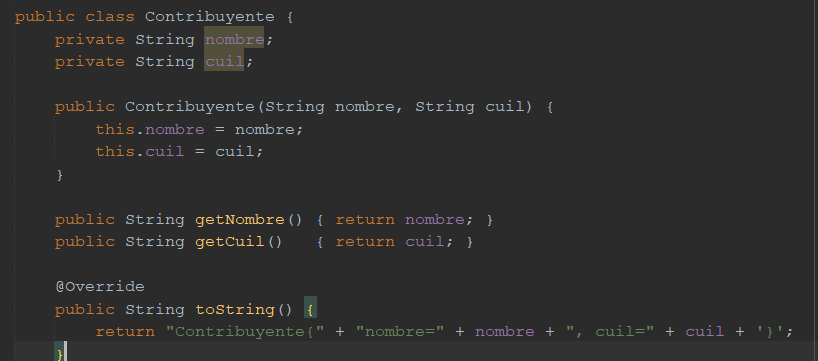
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**Enlace Git Hub:** <https://github.com/Marigi84/TP5-Relaciones-POO-UML/tree/master/Ejercicio2-UML/src/ejercicio2/uml>

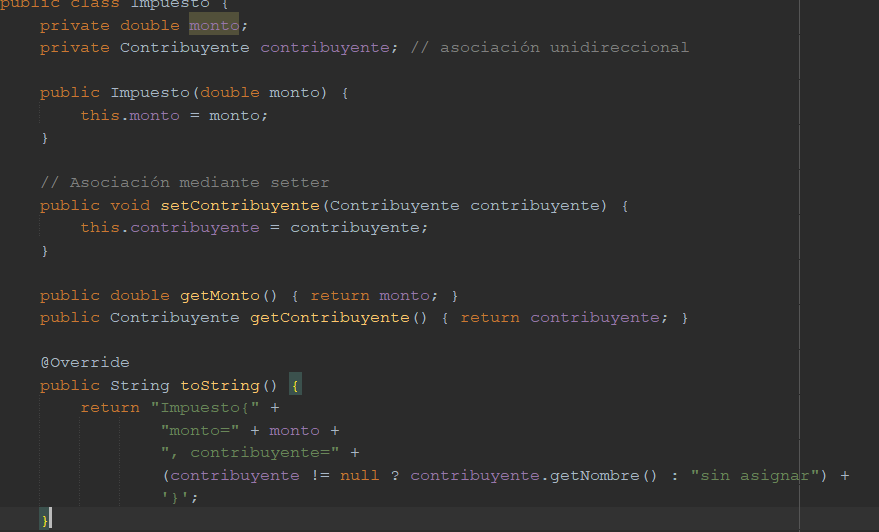
**Main:** ****

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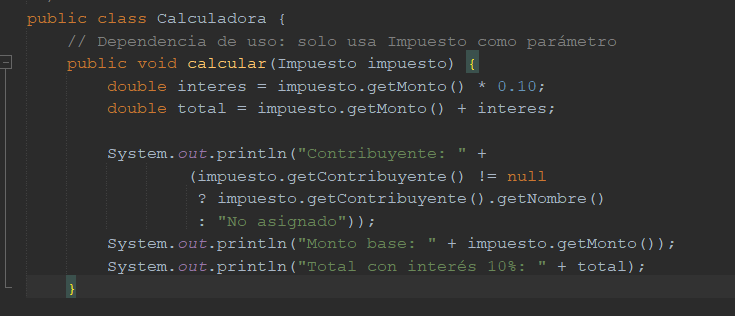
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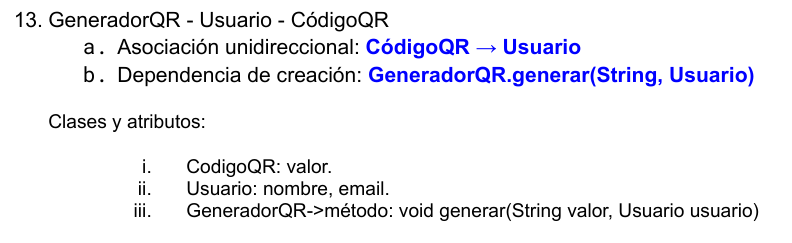
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**Clase Impuesto:**

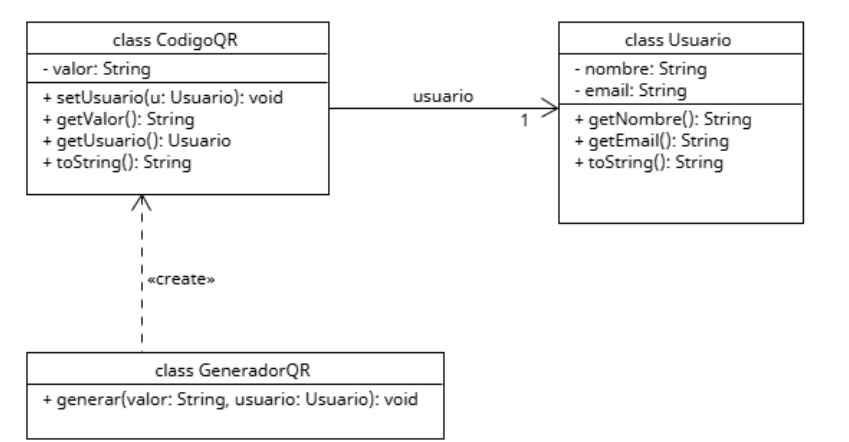
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**Clase Calculadora:**

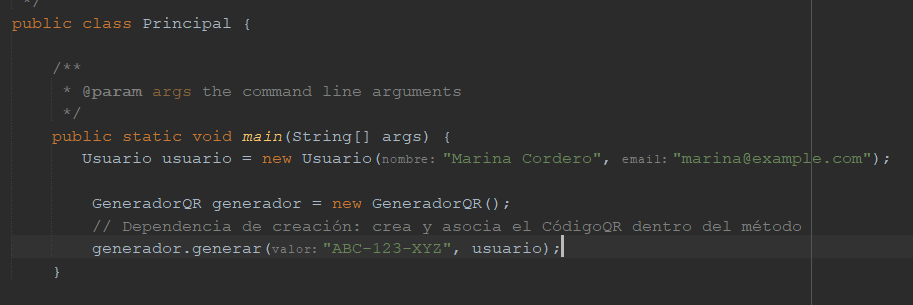
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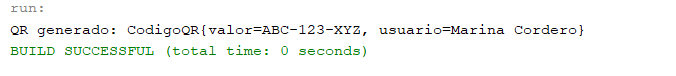
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**Enlace Git Hub:** <https://github.com/Marigi84/TP5-Relaciones-POO-UML/tree/master/Ejercicio13-UML/src/ejercicio13/uml>

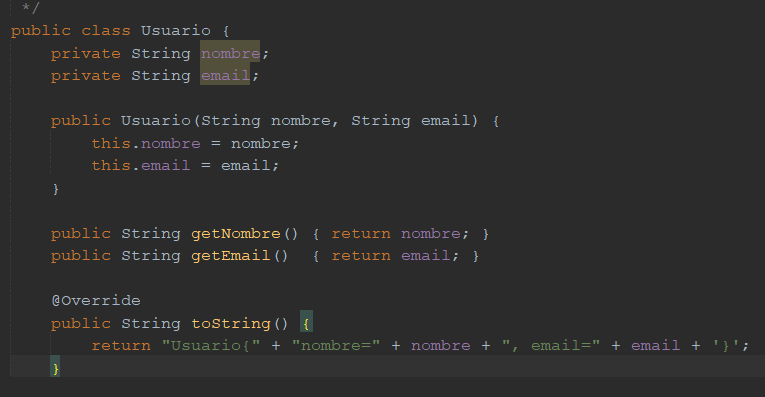
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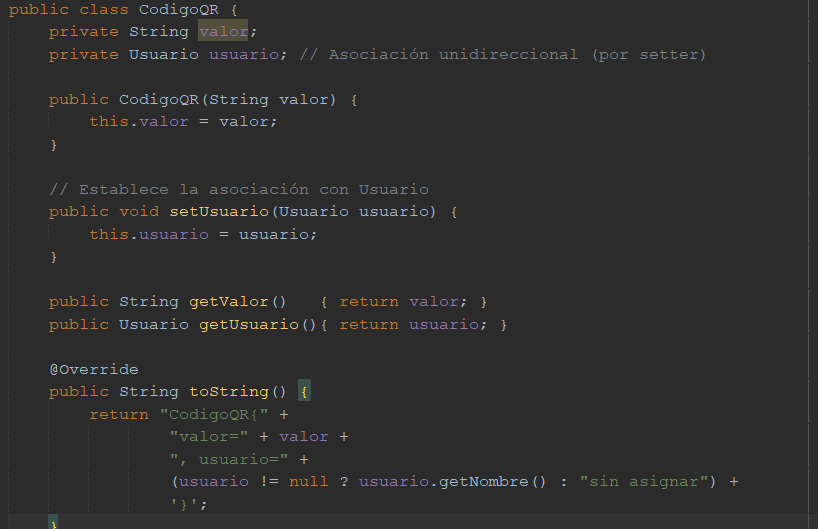
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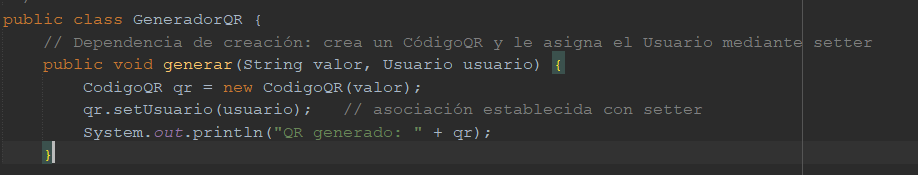
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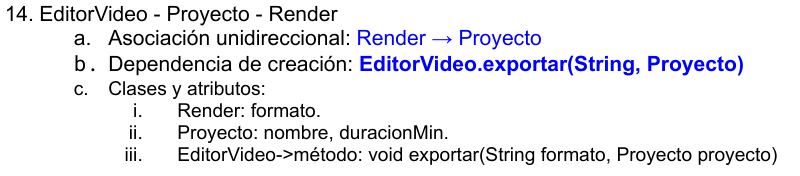
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**Clase CodigoQR:**

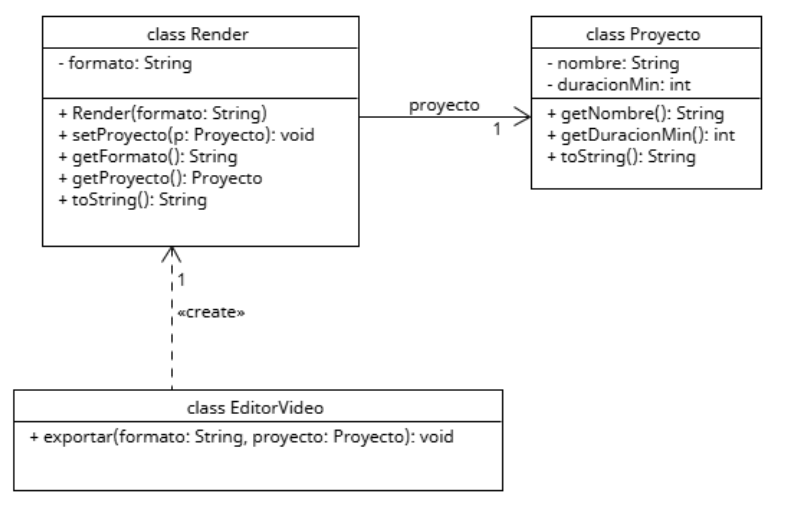
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**Clase GeneradorQR:**

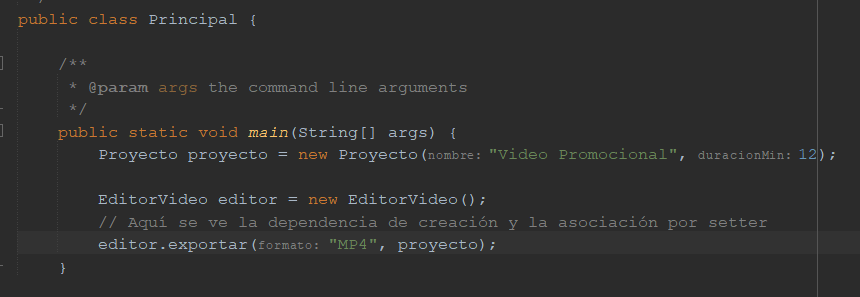
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**Enlace Git Hub:** <https://github.com/Marigi84/TP5-Relaciones-POO-UML/tree/master/Ejercicio14-UML/src/ejercicio14/uml>

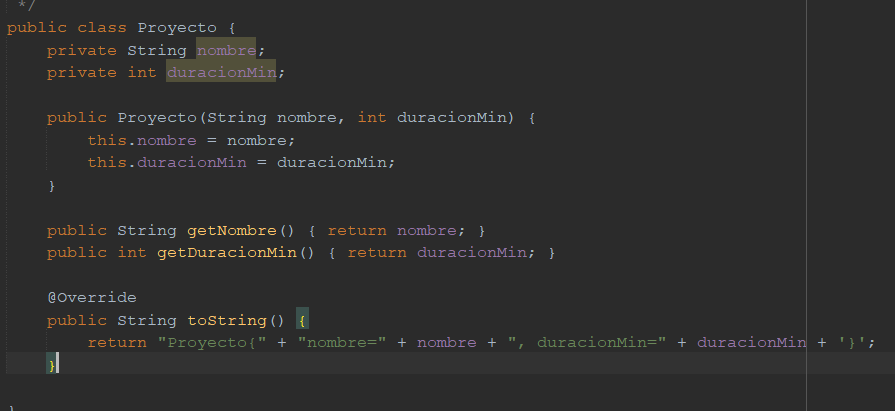
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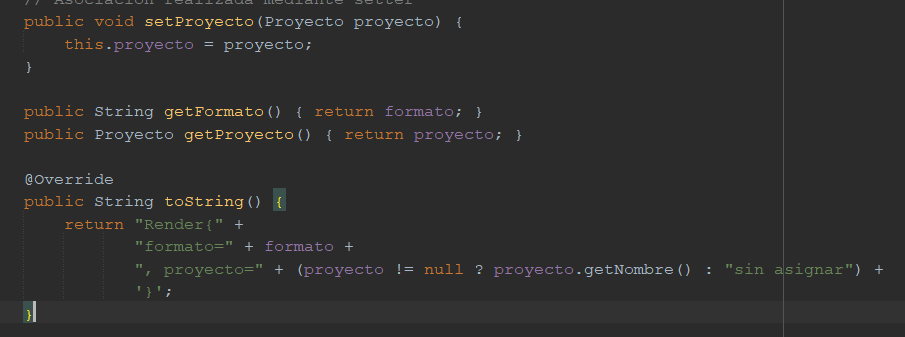
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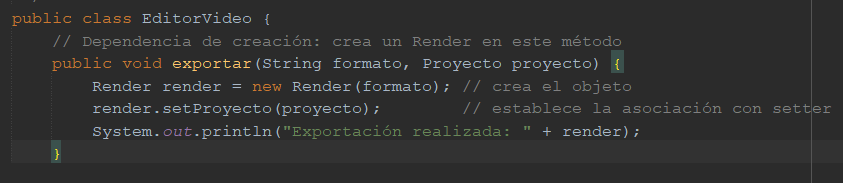
**Clase Proyecto:**

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**Clase Render:**

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**Clase EditorDeVideo:**

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# Conclusión

A través del desarrollo de este trabajo práctico pude afianzar mis conocimientos sobre las relaciones 1 a 1 en el modelado orientado a objetos. La identificación de asociaciones, agregaciones, composiciones y dependencias, así como su correcta implementación en diagramas UML y en Java, me permitió comprender la importancia de diseñar clases con vínculos claros y bien definidos. Este proceso fortaleció mi capacidad de análisis y abstracción, habilidades esenciales para el desarrollo de software de calidad.