Story 10 Membership with free loans

## Description

As a user

I want to add a membership of a specific type

So I can give users a number of free loans

## Acceptance Criteria

* A membership can have a specific type: Bronze, Silver, Gold.
* When adding a membership, a number of free loans is specified.
* The number of free loans cannot exceed the maximum specified by the type:
  + Bronze: max 5 free loans.
  + Silver: max 10 free loans.
  + Gold: max 15 free loans.
* The minimum number of free loans must be greater than the maximum of the lower type (Bronze: 0, Silver 6, Gold: 11)
* When the number of free loans is not valid, an error message is given.

## Technical requirements

* In the domain tests, every possible case is tested.
* Use MembershipException for error handling
* For creating the membership type, don’t use String but use an **enum**. This is a special type (an enumeration) that represents a fixed set of constants (BRONZE, SILVER, GOLD). Just like classes, an enum can have additional fields and methods. Read this article about enums: <https://www.baeldung.com/a-guide-to-java-enums>. Create an enum **MembershipType** that contains the 3 types and a **maxFreeLoans** field for every type (look at section 5 in the article for an example).
* In Membership, don’t hard code the minimum and maximum values for free loans, use the enum.
* Add a method **getRemainingFreeLoans** in Membership that returns the freeLoans field. Do not add a setFreeLoans method!