**Testinum Homework Documentation**

**1-Homework (Character Tree )**

1- The character tree, consisting of lines as many as the number of input values received from the user, is returned to the output.

2- Controlled by Try-Catch throws an exception if the input is not integer.

**2-Homework (BookStore )**

* Documentation your API / OpenAPI  
  <http://localhost:8090/swagger-ui/index.html?configUrl=/api-docs/swagger-config>
* Mysql database was used.
* H2 database for testing added in test scope.
* Script data must be import first. There are sample data for testing the services in this script.
* Lombok library was used.
* There is Logging in the project.
* Some unit tests and integration tests were done.
* All service requests for Postman are available in the file.

**Category**  
  
3- "CreateCategory" creates a new category.  
  
4- "GetAllCategory" lists all categories.  
  
5- Replaces the category of the id book specified in the Update Category category with the given Category id category.  
  
 **BookStore**  
  
7- "CreateBookStore" creates a new BookStore.  
  
8- "Delete Id" deletes the given Book from BookStore.  
  
"GetAll BookStore" lists all bookstores

**Book**  
  
 "CreateBook" creates a new book.  
  
 "Create New Book And Add to BookStores", Create a book and adds it to multiple bookstores at the same time.  
  
 "Add Book" to book Store Adds an existing book to an existing bookstore.  
  
"List Books By Category" Lists the books by category  
  
 "GetAll Book" Lists all books.

 **Rules**  
   
 1-The category must be added first. It cannot be created without a category of books.  
 2-A book can be added to many Bookstores at the same time or just one bookstore and book can be added to bookstore later.  
 3-The code of the book is unique.  
 4-Books must have a category.  
 5-A bookstore with the same name cannot be in the same city.  
 6-Two categories with the same name cannot be created.  
 7-Category name cannot be empty.  
 8-Book price Cannot be Empty  
 9-Book Code Cannot be Empty  
 10-BookStore Name Cannot be Empty  
 11-City Name Cannot be Empty