Homework 2 Design Document

Database Table Names:
➢ Books in library
  ○ Unique Identifier: ISBN number
  ○ Column names: isbn(int), title(str), author(str), genre(str), publish_year(int), copies(int)
➢ Books checked out
  ○ Unique Identifier: Checkout ID
  ○ Column names: title(str), author(str), copies(int), isbn(int), checkout_date(str), due_date(str)

Menu Commands
ADD COMMANDS
➢ def add_book_to_library
  ○ Checks if the specified book is already in the "books in library" table through the isbn number. If it is not in the library, the book is added
➢ def check_out_book
  ○ Checks if a specified book is in the "books in library" table. If it is, then the book is added to the "books checked out" table with the checkout number as the identifier. Also, the number of available copies in the "books in library" table decreases by 1.
REMOVE COMMANDS
➢ def remove_book_from_library
  ○ Checks if the book is in the "books in library" table, and removes the specified book if it is. The book is identified through the isbn number
➢ def check_in_book
  ○ Checks if the checkout ID is in the "books checked out" table, if it is, the book and checkout ID is removed and the number of copies of the specified book in the "books in library" table increases by 1.
PRINT COMMANDS
➢ def print_books_in_library
  ○ Prints all the books in the "books in library" table
➢ Def print_one_book_in_library
  ○ Prints one specified book, identified through the isbn, from the library
➢ def print_checked_out_books
  ○ Prints all the books in the "books checked out" table
MODIFY COMMANDS
➢ def add_copies_to_library
  ○ Changes the amount of copies of the specified book in the "books in library" table
➢ def renew_book
  ○ Changes the due date of the book in the "books checked out" table