#### Classes – Homework 8

- This is an individual assignment.
- Before you start on the homework, please read the rules on collaboration and submission in the syllabus.

**Task 1** Write a Python data class named Book that represents information about a book. Each book should have the following attributes:

- title (string): The title of the book.
- author (string): The author of the book.
- publication\_year (int): The year the book was published.
- isbn (string): The International Standard Book Number of the book.

Task 2 Additionally, implement 4 accessor (functions that get the values) methods: get\_title, get\_author, get\_year, get\_isbn, and the following additional methods in the class:

- to\_str: Return a string representation of the book in the format "Title by Author (Year)".
- is\_published\_recently(current\_year): Return True if the book was published within the last 10 years based on the current year; otherwise, return False.

**Task 3** Out of the class add following functions:

- 1. A function named enter\_book\_data() that has no parameters but takes user input: title, author, publication year, and isbn number. This function shout make and return an object Book created based on the user input.
- 2. The function main():

Should create two book objects as in example 1 and 2:

```
book1 = Book("The Great Gatsby", "F. Scott Fitzgerald", 1925, "978-3-16-148410-0")
book2 = Book("The Last Wish", "Andrzej Sapkowski", 1993, "0-575-07192-1")
```

The main() function should also call enter\_book\_data(), save the output in a variable called book3 and print data about the new object.

## Output

### Example 1:

```
book1 = Book("The Great Gatsby", "F. Scott Fitzgerald", 1925, "978-3-16-148410-0")
print(book1.to_str())
The Great Gatsby by F. Scott Fitzgerald (1925)
print(book1.is_published_recently(2023))
False
print(book1.get_isbn())
978-3-16-148410-0
print(book1.get_year())
1925
Example 2:
book2 = Book("The Last Wish", "Andrzej Sapkowski", 1993, "0-575-07192-1")
print(book2.to_str())
The Last Wish by Andrzej Sapkowski (1993)
print(book2.is_published_recently(2023))
False
print(book2.get_title())
The Last Wish
print(book2.get_author())
Andrzej Sapkowski
Example 3 (when you run the program):
Enter book title: The Witcher: Blood of Elves
Enter author: Andrzej Sapkowski
Publication year: 1994
ISBN: 0-575-07192-1
```

# Submission Requirements

The title for this lab is hw8. Your submitted file is required to be named hw8.py.

## Grading

The rubric for this assignment is available through Gradescope.

The Witcher: Blood of Elves by Andrzej Sapkowski (1994)