**Problem Assignmen-2: NoSQL mongoDB**

**Lesson Overview:**

In this lesson, we will focus on making one familiar with NoSQL mongoDB queries concepts and syntax.

**Resources**

Check the provided links from lecture 2

* <https://www.mongodb.com/cloud/atlas>
* [**https://colab.research.google.com**](https://colab.research.google.com)
* <https://www.w3schools.com/python/python_mongodb_getstarted.asp>

**Assignment Description:**

1. **Create mongoDB Atlas account**
2. **Create mongoDB Free Cluster**
3. **Create Library database**
4. **Create books collection**
5. **Insert documents (books info) into books collection, using Python code create a function that ask the system user for the book information and create the json structure that will be inserted into collection as a document.**
   1. Book information: [isbn, title, author, data, publisher, category, quantity, price, …]
6. **The system user should have the ability to search for books:**
   1. Give multiple examples on how to query these data.
7. **The system user should be able to checkout some books:**
   1. Create a checkout function that select the books the user wants to buy, display the sum price of these book and display this to the user then if agreed update the quantity for the selected books.

If you face some challenge make sure to google the problem, there must be multiple ways to solve something. If you cannot solve one of the tasks, then try to do something else new and creative.

**To submit your solution:**

1. Create a PDF file or Word file write your name and ID.
2. Write your code with some documentation or explanation.
3. Show a screenshot for your results.
4. If you used python notebook try to submit your notebook.