Object Oriented Programming

Lab 5

Task 1:

♦ Creating a Python program to model a library system:

```python
class Item:
    def __init__(self, title, author):
        self.title = title
        self.author = author

    def display_info(self):
        print(f"Title: {self.title}, Author: {self.author}")

class Book(Item):
    def __init__(self, title, author, pages):
        super().__init__(title, author)
        self.pages = pages

    def additional_info(self):
        print(f"Pages: {self.pages}")

class Magazine(Item):
    def __init__(self, title, author, issue_number):
        super().__init__(title, author)
        self.issue_number = issue_number

    def additional_info(self):
        print(f"Issue Number: {self.issue_number}")

if __name__ == "__main__":
    book1 = Book("Batman", "Stan Lee", 28)
    magazine1 = Magazine("Express", "News", 802)

    print("Book Information:")
    book1.display_info()
    book1.additional_info()

    print("\nMagazine Information:")
    magazine1.display_info()
    magazine1.additional_info()
```

```
Book Information:
Title: Batman, Author: Stan Lee
Pages: 28

Magazine Information:
Title: Express, Author: News
Issue Number: 802
```