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Task = 05

**Create a Python program to model a library system:**

**1. Implement a parent class called Item with attributes title and author, and a method**

**display\_info to display the title and author of the item.**

**2. Then create two child classes Book and Magazine inheriting from Item, each with**

**an additional attribute (pages for Book and issue\_number for Magazine) and a**

**method additional\_info to display the additional attributes.**

class Item:

    def \_\_init\_\_(self, title, author):

        self.title = title

        self.author = author

    def display\_info(self):

        print(f"Title: {self.title}")

        print(f"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}")

book = Book("The Great Gatsby", "F. Scott Fitzgerald", 180)

book.display\_info()

book.additional\_info()

print()

magazine = Magazine("National Geographic", "Various", 202)

magazine.display\_info()

magazine.additional\_info()