## Task : 1

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.

## Answer:

```
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 display_info(self):
        super().display_info()
        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 display_info(self):
        super().display_info()
        print(f" Issue_number : {self.issue_number}" )


obj_1 = Book( " Baal-e-Jibreel  " ," Allama-Muhammad-Iqbal " ,"1935")
obj_1.display_info()
obj_2 =Magazine( " Peer-e-Kamil" , " Umera-Ahmad " ,"141753")
obj_2.display_info()
```