```
# class and a Library class.The Library class should have methods to add a book, display all books, and search for a book by title.
class Book:
    def __init__(self,title,author,ISBN):
        self.title=title
        self.author=author
        self.ISBN=ISBN
class Library(Book):
    def __init__(self):
        self.books=[]


    def addBooks(self):
        while True:
            self.title=input("Enter the name of the Book or press 'q' to exit: ")
            if self.title.lower()=='q':
                break
            else:
                self.author=input("Enter the name of the author of the book: ")
                self.ISBN=int(input("Enter the ISBN number of the book: "))
                self.books.append(self.title)
                self.books.append(self.author)
                self.books.append(self.ISBN)


    def showBooks(self):
        for books in self.books:
            print(books)
    def searchBook(self):

        query=input("Search the book: ")
        search=[book for book in self.title if query.lower() in self.title.lower()]
        if search:
            print("Search Results are: ")
            for book in search:
                book.showBooks()
        else:
            print("Tell me ")



first=Library()
first.addBooks()
first.showBooks()
first.searchBook()









#class Book:
#     def __init__(self, title, author, ISBN):
#         self.title = title
#         self.author = author
#         self.ISBN = ISBN
#
#     def display_info(self):
#         print("Title:", self.title)
#         print("Author:", self.author)
#         print("ISBN:", self.ISBN)
#         print()
#
#
# class Library:
#     def __init__(self):
#         self.books = []
#
#     def add_book(self, book):
#         self.books.append(book)
#         print(f"Book '{book.title}' added to the library.")
#
#     def display_all_books(self):
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#         if not self.books:
#             print("No books in the library.")
#         else:
#             print("All Books in the Library:")
#             for book in self.books:
#                 book.display_info()
#
#     def search_by_title(self, title):
#         matching_books = [book for book in self.books if title.lower() in book.title.lower()]
#
#         if matching_books:
#             print(f"Search results for '{title}':")
#             for book in matching_books:
#                 book.display_info()
#         else:
#             print(f"No books found with the title '{title}' in the library.")
#
#
# # Example usage:
#
# # Create a library
# my_library = Library()
#
# # Add books to the library
# book1 = Book("The Great Gatsby", "F. Scott Fitzgerald", "9780142437226")
# book2 = Book("To Kill a Mockingbird", "Harper Lee", "9780061120084")
#
# my_library.add_book(book1)
# my_library.add_book(book2)
#
# # Display all books in the library
# my_library.display_all_books()
#
# # Search for a book by title
# my_library.search_by_title("mockingbird")
```

```
# class SearchableList:
#     def __init__(self, items):
#         self.items = items
#
#     def search(self, query):
#         results = [item for item in self.items if query.lower() in item.lower()]
#
#         if results:
#             print("Search results:")
#             for result in results:
#                 print(result)
#         else:
#             print("No matching results found.")
#
# # Example usage:
#
# # Create a SearchableList
# my_list = SearchableList(["apple", "banana", "orange", "grape", "kiwi", "melon"])
#
# # Prompt the user for a search query
# search_query = input("Enter a search query: ")
#
# # Perform the search and display results
# my_list.search(search_query)
```

••• Enter the name of the Book or press 'q' to exit: