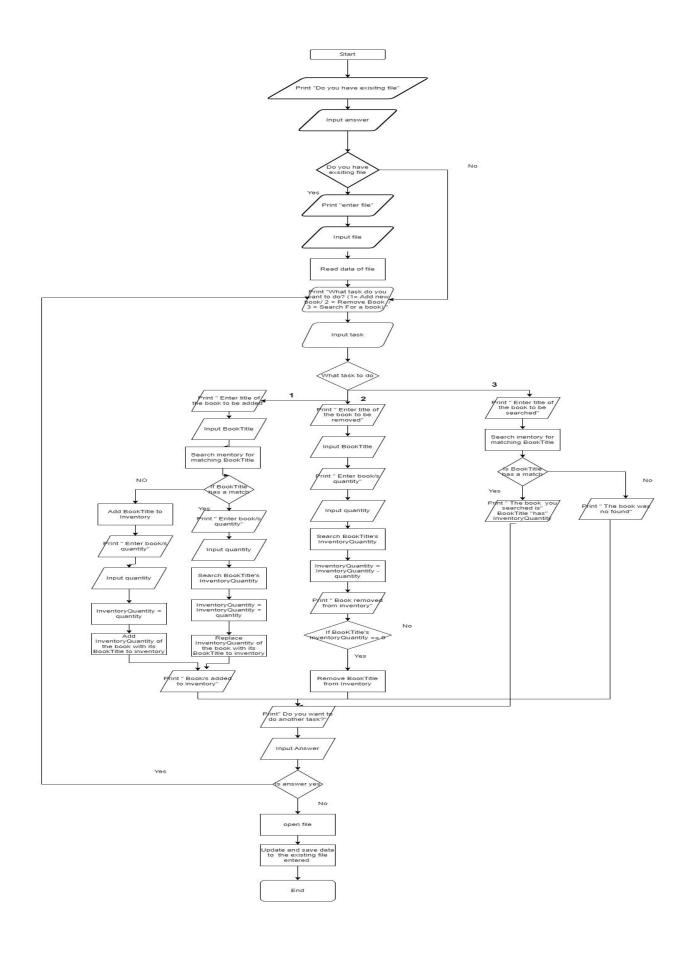
Flowchart



```
Running Code:
class Book:
  def __init__(self, title, quantity):
     self.title = title
     self.quantity = quantity
  def __str__(self):
     return f"{self.title}"
class Inventory:
  def __init__(self):
     self.books = []
  def add_book(self, book):
     self.books.append(book)
  def remove_book(self, book):
     self.books.remove(book)
  def search_books(self, search_term):
     return [book for book in self.books if search_term.lower() in book.title.lower()]
  def display_books(self):
     for book in self.books:
       print(book)
def main():
  library_inventory = Inventory()
```

```
while True:
  print("Enter 1 to add a book")
  print("Enter 2 to remove a book")
  print("Enter 3 to search for a book")
  print("Enter 0 to exit")
  choice = input("What task do you want to do? ")
  if choice == "1":
     title = input("Enter title of the book to be added: ")
     quantity = int(input("Enter book/s quantity: "))
     book = Book(title, quantity)
     library_inventory.add_book(book)
     print("Book/s added to inventory!")
  elif choice == "2":
     title = input("Enter title of the book to be removed: ")
     matching_books = [book for book in library_inventory.books if book.title == title]
     if len(matching_books) == 0:
       print("Book not found.")
     else:
       book_to_remove = matching_books[0]
       library_inventory.remove_book(book_to_remove)
       print("Book removed from inventory")
  elif choice == "3":
     search_term = input("Enter title of the book to be searched: ")
     matching_books = library_inventory.search_books(search_term)
     if len(matching_books) == 0:
       print("The book was not found.")
```

```
else:
          print("Matching books:")
          for book in matching_books:
            print(book)
     elif choice == "0":
       print("Exiting program.")
       break
     else:
       print("Invalid choice. Please try again.")
     while True:
       answer = input("Do you want to do another task? (y/n): ")
       if answer.lower() == "n":
          print("Exiting program.")
          return
       elif answer.lower() == "y":
          break
       else:
          print("Invalid input. Please enter y or n.")
if __name__ == "__main__":
  main()
```