S.No: 1	Exp. Name: ***Project Module***	Date:2024-06-17

Aim:

Project Module.

Source Code:

CTP28132.py

```
class Book:
    def __init__(self, title, author, genre, price, quantity):
        self.title = title
        self.author = author
        self.genre = genre
        self.price = price
        self.quantity = quantity

class Bookstore:
    def __init__(self):
        self.inventory = []

    def add_book(self, book):
        self.inventory.append(book)

    def display_books(self):
        if not self.inventory:
            print("No books available.")
        else:
            print("Available Books:")
            for book in self.inventory:
                print(f"Title: {book.title}, Author: {book.author}, Genre: {bo
ok.genre}, Price: {book.price}, Quantity: {book.quantity}")

    def search_book(self, title):
        found = False
        for book in self.inventory:
            if book.title.lower() == title.lower():
                print(f"Book Found - Title: {book.title}, Author: {book.autho
r}, Genre: {book.genre}, Price: {book.price}, Quantity: {book.quantity}")
                found = True
                break
        if not found:
            print("Book not found.")

    def remove_book(self, title):
        for book in self.inventory:
            if book.title.lower() == title.lower():
                self.inventory.remove(book)
                print(f"Book '{title}' removed from inventory.")
                return
        print("Book not found.")

def main():
    bookstore = Bookstore()
```

```
    while True:
        print("\nBookstore Management System")
        print("1. Add Book")
        print("2. Display Available Books")
        print("3. Search Book")
        print("4. Remove Book")
        print("5. Exit")

        choice = input("Enter your choice: ")

        if choice == '1':
            title = input("Enter title: ")
            author = input("Enter author: ")
            genre = input("Enter genre: ")
            price = float(input("Enter price: "))
            quantity = int(input("Enter quantity: "))
            book = Book(title, author, genre, price, quantity)
            bookstore.add_book(book)
            print("Book added successfully.")

        elif choice == '2':
            bookstore.display_books()

        elif choice == '3':
            title = input("Enter title to search: ")
            bookstore.search_book(title)

        elif choice == '4':
            title = input("Enter title to remove: ")
            bookstore.remove_book(title)

        elif choice == '5':
            print("Exiting program.")
            break

        else:
            print("Invalid choice. Please enter a valid option.")

if __name__ == "__main__":
    main()
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Hello World
Hello World