```
import json
import os
book_catalogue = {}
def load_books():
global book_catalog
if os.path.exists('book_catalogue.json'):
with open('book_catalogue.json','r') as file:
book_catalog = json.load(file)
else:
book_catalog = {}
def save_books():
with open('book_catalogue.json', 'w') as file:
json.dump(book_catalog, file, indent=4)
def add_book():
title = input('Enter book title: ').strip()
author = input('Enter author name: ').strip()
genre = input('Enter book genre: ').strip()
year = input('Enter publication year: ').strip()
isbn = input('Enter ISBN number: ').strip()
if title and author:
book_catalogue[title] = {
'author': author,
'details': {
'genre': genre,
'year': year,
'isbn': isbn
}
}
print(f'Book "{title}" by {author} added successfully.')
save_books()
else:
print("Title and author are required fields. Book not added.")
def view_books():
if not book_catalogue:
print('No books in catalog.')
return
print('-' * 50)
for title, info in book_catalogue.items():
```

```
print(f"Title: {title}")
print(f"Author: {info['author']}")
details = info['details']
print(f"Genre: {details['genre']}")
print(f"Year: {details['year']}")
print(f"ISBN: {details['isbn']}")
print('-' * 20)
def search_books():
keyword = input("Enter keyword to search: ").strip().lower()
results = []
for title, info in book_catalogue.items():
if (keyword in title.lower() or keyword in info["author"].lower() or
keyword in info["details"]["genre"].lower()):
results.append(title)
if results:
print("Found books:")
for book in results:
print(book)
else:
print("No books found matching that keyword.")
load_books()
while True:
print("\nBook Catalog Menu:")
print("1. Add Book")
print('2. View Books')
print('3. Search Books')
print('4. Exit')
choice = input('Enter your choice (1-4): ').strip()
if choice == '1':
add_book()
elif choice == '2':
view_books()
elif choice == '3':
search_books()
elif choice == '4':
break
else:
print('Invalid choice. Please try again.')
```