UNIVERSITI TEKNOLOGI MARA
Cawangan Kedah
Kampus Sungai Petani

SCHOOL OF INFORMATION SCIENCE,

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

UNIVERSITI TEKNOLOGI MARA

CDIM144 - DIPLOMA IN LIBRARY INFORMATICS

IML208 PROGAMMING FOR LIBRARIES

INDIVIDUAL ASSIGNMENT:

ONLINE BOOKSHOP SYSTEM

PREPARED BY

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KCDIM1443E

PREPARED FOR

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UNIVERSITI TEKNOLOGI MARA (UiTM)

KEDAH BRANCH

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Programme Code :-
Faculty / Campus : UiTM Kampus Sungai Petani

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TABLE OF CONTENT

Project Name: Online bookshop system

File name: onlinebookshop.py

1.0 INTRODUCTION

Online bookshop system is a system that allows users to buy and search for books they wanted.

2.0 PROMPT DATA

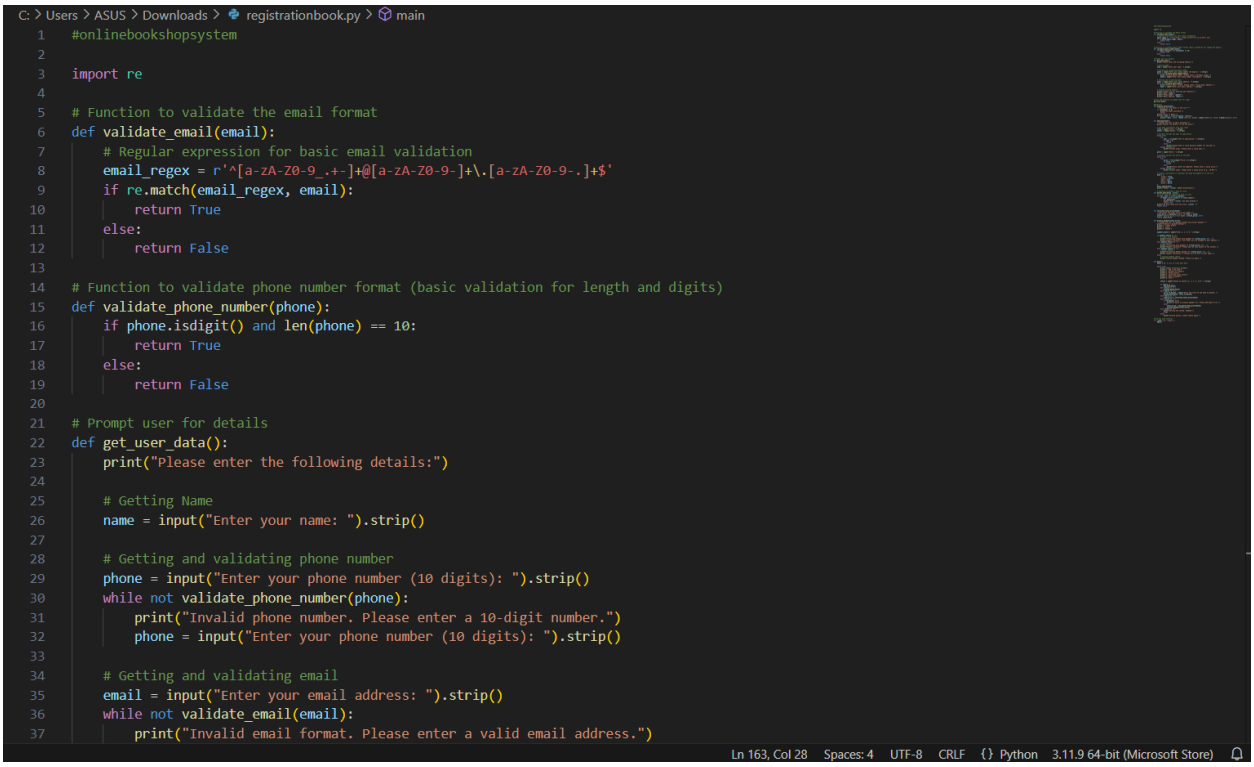
Prompt Data:

i. Name
ii. Phone number
iii. Email address
iv. Add a new book
v. Delete book

3.0 FUNCTION

Function:

i. Create data



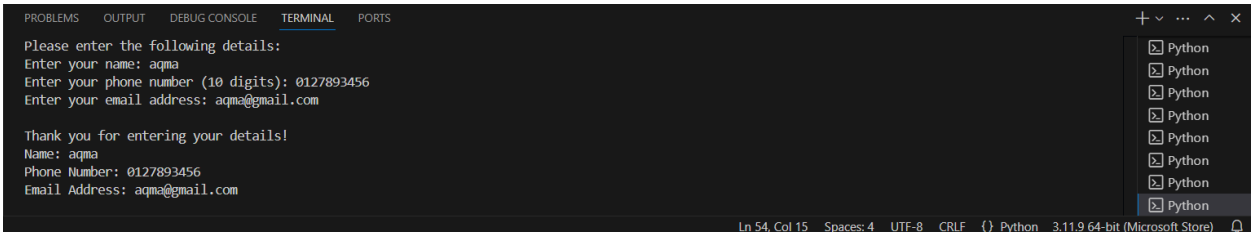
```python
    # Getting and validating email
    email = input("Enter your email address: ").strip()
    while not validate_email(email):
        print("Invalid email format. Please enter a valid email address.")
        email = input("Enter your email address: ").strip()

    # Display entered details
    print("\nThank you for entering your details!")
    print(f"Name: {name}")
    print(f"Phone Number: {phone}")
    print(f"Email Address: {email}")

# Call the function to prompt user for input
get_user_data()

#bookscart
def display_books(books):
    """Display all the books in the list."""
    if len(books) == 0:
        print("No books available.")
        return
    print("\nList of Books:")
    for idx, book in enumerate(books, start=1):
        print(f"{idx}. Title: {book['title']}, Author: {book['author']}, Price: ${book['price']:.2f}")

def add_book(books):
    """Prompt the user to add a new book."""
    print("\nEnter the details of the new book:")

    # Get book information from user input
    title = input("Title: ").strip()
    author = input("Author: ").strip()
```

C: > Users > ASUS > Downloads > registrationbook.py > display_books

```python
def add_book(books):
    # Validate and get the year of publication
    while True:
        try:
            year = int(input("Year of publication: ").strip())
            if year > 0:
                break
            else:
                print("Please enter a valid positive number for the year.")
        except ValueError:
            print("Invalid input. Please enter a valid year.")

    genre = input("Genre: ").strip()

    # Validate and get the price of the book
    while True:
        try:
            price = float(input("Price: $").strip())
            if price >= 0:
                break
            else:
                print("Price cannot be negative. Please enter a valid price.")
        except ValueError:
            print("Invalid input. Please enter a valid price (e.g., 19.99).")

    # Create a dictionary to represent the book and append it to the list
    book = {
        'title': title,
        'author': author,
        'year': year,
        'genre': genre,
        'price': price
    }
    books.append(book)
    print(f"\nBook '{title}' added successfully!")

```

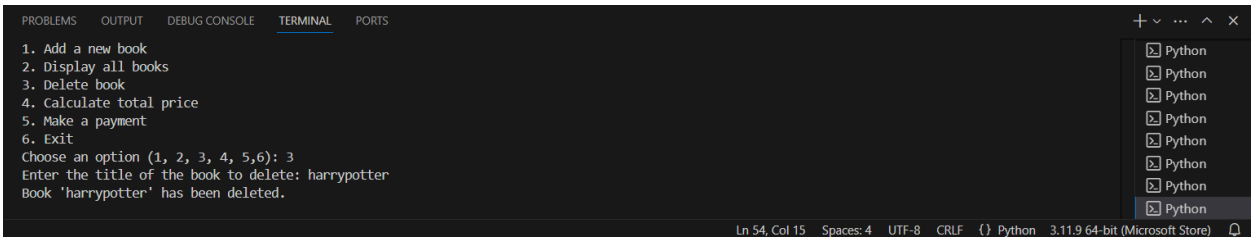
```python
    # Function to delete a book by title
def delete_book(books, title):
    # Try to find and remove the book by title
    for idx, book in enumerate(books):
        if book['title'].lower() == title.lower():
            del books[idx]
            print(f"Book '{title}' has been deleted.")
            return True
    print(f"No book found with the title '{title}'.")
    return False
```

ii. Read data



iii. Update data

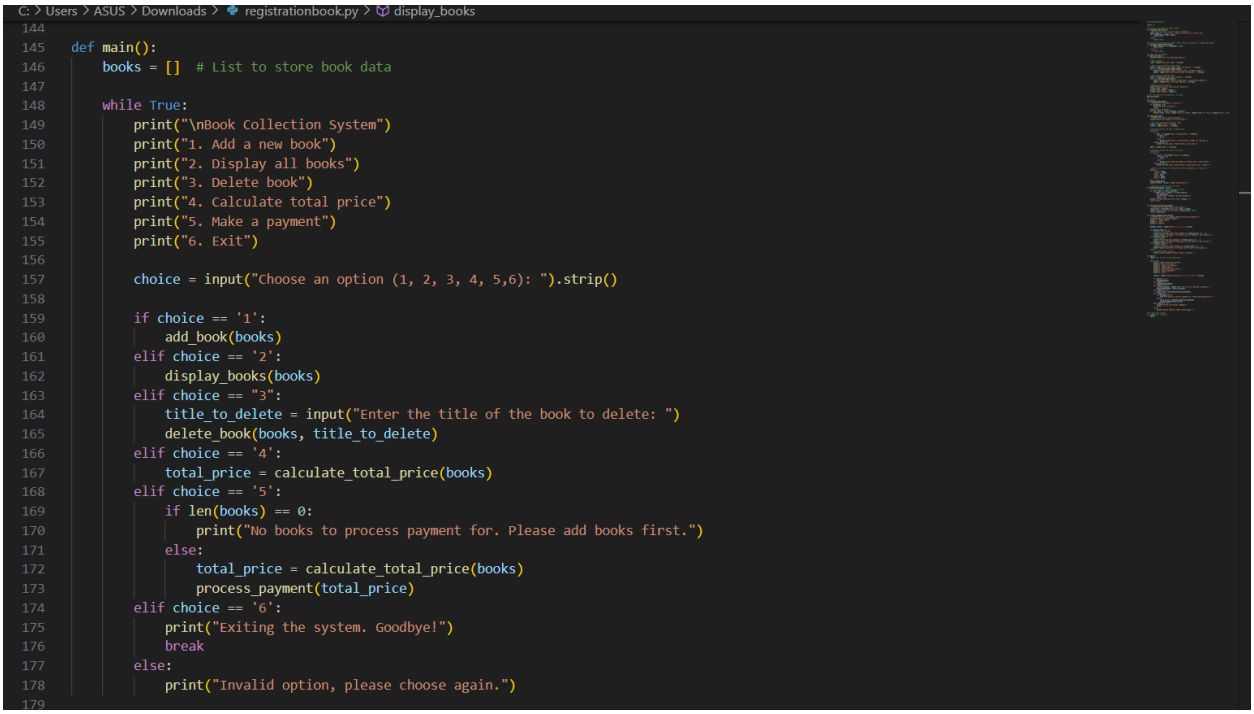
iv. Delete existing data



4.0 CONDITIONAL STATEMENT

Conditional Statement: Yes

If, elif, & else



5.0 GUI

GUI: No

6.0 STRENGTH

Strength:

1. **Track list of books in cart**: any new books that are added into the cart can be traced by display the list of books.
2. **Remove any unwanted books**: user can remove any books from their cart and view the latest list.
3. **Auto calculation**: Prices of the books will be automatically calculated to make it easier for users to make payments.
4. **Easy to search book**: Any books user wants, they can fill the title, author, year publication and genre.
5. **Easy to make payment**: user can choose to pay through online banking or at physical bookstore by cash.

5.0 KAIZEN (Room for improvement)

1. **High security**: improve the security of registration by putting passwords especially for membership users.
2. **Make more payment option**: add more payment options to make it easier for users to make a payment
3. **Add log out system**: After purchasing users can choose to log out their account to protect their personal data.
4. **Add discount section**: user can fill and use any discount that was offered before making the payment to get cheaper prices.