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Introduction to programming I I  
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## I. Abstract

The report is on problem solving using coding python. Below logical solutions to problem with a set of Coding.

## II. Acknowledgement

In the first instance, I would like to thank Mr.Sutharshana Welihinda, Mr.Nishan Harankahawa whose wise counsel and vast experience enabled me to successfully complete this assessment.

I would also like to thank all my family and friends, who helped me in some way.

## Introduction

Problem-solving is the process identifying a problem, developing algorithm for the identified problem, and finally implementing the coding to develop a computer program. Below a set of coding used to solve problem for certain scenario.

## 1. Analyze the problem

It is required to create an Automated management system for ABC store Because it is hard Maintain manual file management system for ABC store to store process and retrieve data for large number of crowds, so to overcome these challenges by replacing by automated computerized system. if we implement automated management system, it is easy to add, delete, search user required books without spending more time. easy to maintain books data without confusion. maintain a database of books to track down and update books query.

ABC Store Requirements:

- Create information about each book in the bookstore.
  - Book No, Title, Subject Code, Author, Publisher, Price, Location, Quantity, genre, description Taken as input for creating a record of the book.
- Create information about each book chapters in the bookstore.
  - Book No, Chapter No, Title, starting page no, ending page no taken as input for creating a record of the book chapters.
- Ability to create book subjects. The books on the site should be grouped into several categories to make it easier for users to find the books they need.
  - Subject Code, Name taken as input for creating a sub category for searching books and identify the books categorized subject.
- To find books on the site, user need to use a direct search option to find information about book records
  - book number, Book Title, Author, Publisher and location taken as input and search query to display book records.
- It should be possible to add, edit, or delete book-related information.



- Below, a program solution is created for two types of users by considering the ABC Store.

User\_1: -Administrator(owner):-who can add, edit, delete search and maintain the book records.

User\_2:-Customer:-Who can view books, chapters information and search required books by certain inputs.

Package used in coding:

- art5.5(pip install art) package is used to write store heading and welcome message.
- Install by cmd
- Package reference in reference page

## 2. Coding

### 1.1 Main Program Code

```
#Connect Mysql Database
import mysql.connector

db=mysql.connector.connect (host="localhost", user="root", password="")

#Heading Package
from art import tprint

tprint(" ABC STORE",font="blockhead")
tprint("WELCOME TO ABC STORE",font="random")

#Import time for login Details
import time

#Identify the user
while True:
    print("IDENTIFY YOURSELF\n1.CUSTOMER\n2.ADMINISTRATOR")
    opt=int(input("Please Enter Your Option - 1 or 2 :"))
    print()
    if opt==1:
        print("Directed you to the site as a customer")
        break
    elif opt==2:
        print("WELCOME TO THE SITE ADMIN")
        break
    else:
        print("***PLEASE SELECT THE CORRECT NUMBER***")

#CREATING DATABASE AND TABLE
cursor=db.cursor(buffered=True)
cursor.execute("create database if not exists abc_store")
cursor.execute("use abc_store")
```

```
cursor.execute("create table if not exists customer_login_details(user varchar(50),password varchar(50),login_date date,login_time time)")
```

```
cursor.execute("create table if not exists admin_login_details(admin varchar(50),password varchar(50),login_date date,login_time time)")
```

```
#Customer account details
```

```
while (True):
```

```
    if opt==1:
```

```
        print("1.Sign up for ABC STORE\n2.Login into ABC STORE")
```

```
        cus_opt=int(input("Please Enter Your Option- 1 or 2 :"))
```

```
        #Customer signup
```

```
        if cus_opt==1:
```

```
            user=input("ENTER YOUR USERNAME:")
```

```
            p_word=input("ENTER YOUR PASSWORD:")
```

```
            sg_date=time.strftime('%Y-%m-%d')
```

```
            sg_time=time.strftime('%H:%M:%S')
```

```
            cursor.execute("insert into customer_login_details  
values('"+user+"','"+p_word+"','"+sg_date+"','"+sg_time+"')")
```

```
            db.commit()
```

```
            print()
```

```
            print("YOU HAVE SUCCESSFULLY CREATED YOUR ACCOUNT")
```

```
            print()
```

```
            print("PLEASE LOGIN TO THE SITE")
```

```
            user=input("ENTER YOUR USERNAME:")
```

```
            cursor.execute("select user from customer_login_details where user='"+user+"'")
```

```
            pot=cursor.fetchone()
```

```
            if pot is not None:
```

```
                print("VALID USERNAME!!!!!!")
```

```
                p_word=input("ENTER YOUR PASSWORD:")
```

```
                cursor.execute("select password from customer_login_details where password='"+p_word+"'")
```

```
                a=cursor.fetchone()
```

if a is not None:

```
print("succesdfully loged in")
```

```
#signup customer Books record Menu
```

```
while(True):
```

```
    print("1:View Chapter Information\n2:Direct Search\n3:Search By subject Code\n4:Exit")
```

```
    cus_chs=int(input("Enter your choice:"))
```

```
    if cus_chs==1:
```

```
        import chapter
```

```
        chapter.vw_chap()
```

```
    elif cus_chs==2:
```

```
        print("1:Search By Book No\n2:Search By Book Title\n3:Search By Author\n4:Search By  
Publisher\n5.Search By Location\n6:Exit")
```

```
        cus_chs02=int(input("Enter your choice:"))
```

```
        while(True):
```

```
            if cus_chs02==1:
```

```
                import search_books
```

```
                search_books.sc_bkno()
```

```
            elif cus_chs02==2:
```

```
                import search_books
```

```
                search_books.sc_bktit()
```

```
            elif cus_chs02==3:
```

```
                import search_books
```

```
                search_books.sc_auth()
```

```
            elif cus_chs02==4:
```

```
                import search_books
```

```
                search_books.sc_pub()
```

```
            elif cus_chs02==5:
```

```
                import search_books
```

```
                search_books.sc_loc()
```

```
            elif cus_chs02==6:
```

```
                print("welcome")
```

```
                break
```

```
        else:
```

```

        print("---Please Select Correct Option---")
    elif cus_chs==3:
        import subject
        subject.sc_sjcod()
    elif cus_chs==4:
        print("welcome")
        break
    else:
        print("---Please Select Correct Option---")
        break
else:
    print("""+++++INCORRECT PASSWORD+++++""")
else:
    print("""+++++INVALID USERNAME+++++""")

#Customer Login
elif cus_opt==2:
    user=input("ENTER YOUR USERNAME:")
    sg_date=time.strftime('%Y-%m-%d')
    sg_time=time.strftime('%H:%M:%S')
    cursor.execute("select user from customer_login_details where user='"+user+"'")
    top=cursor.fetchone()
    if top is not None:
        print("VALID USERNAME!!!!!!")
        p_word=input("ENTER YOUR PASSWORD:")
        cursor.execute("select password from customer_login_details where password='"+p_word+"' ")
        q=cursor.fetchall()
        cursor.execute("insert into customer_login_details
values('"+user+"','"+p_word+"','"+sg_date+"','"+sg_time+"')")
        db.commit()
        if q is not None:
            print("succesdfully logged in")

```

#login customer Books Record Menu

while(True):

print("1:View Chapter Information\n2:Direct Search\n3:Search By subject Code\n4:Exit")

cus\_chs=int(input("Enter your choice:"))

if cus\_chs==1:

import chapter

chapter.vw\_chap()

elif cus\_chs==2:

print("1:Search By Book No\n2:Search By Book Title\n3:Search By Author\n4:Search By Publisher\n5:Search By Location\n6:Exit")

cus\_chs02=int(input("Enter your choice:"))

while(True):

if cus\_chs02==1:

import search\_books

search\_books.sc\_bkno()

elif cus\_chs02==2:

import search\_books

search\_books.sc\_bktit()

elif cus\_chs02==3:

import search\_books

search\_books.sc\_auth()

elif cus\_chs02==4:

import search\_books

search\_books.sc\_pub()

elif cus\_chs02==5:

import search\_books

search\_books.sc\_loc()

elif cus\_chs02==6:

print("welcome")

break

else:

print("---Please Select Correct Option---")

elif cus\_chs==3:

```

import subject
subject.sc_sjcod()
elif cus_chs==4:
    print("welcome")
    break
else:
    print("---Please Select Correct Option---")

```

```

break
else:
    print("""+++++INCORRECT PASSWORD+++++""")
else:
    print("""+++++INVALID USERNAME+++++""")

```

#Adminstrato Sign up

```

elif opt==2:
    print("1.Sign up for ABC STORE\n2.Login into ABC STORE")
    adm_opt=int(input("Please Enter Your Option- 1 or 2 :"))

    if adm_opt==1:
        admin=input("ENTER YOUR USERNAME:")
        p_word=input("ENTER YOUR PASSWORD:")
        sg_date=time.strftime('%Y-%m-%d')
        sg_time=time.strftime('%H:%M:%S')

        cursor.execute("insert into admin_login_details
values('"+admin+"','"+p_word+"','"+sg_date+"','"+sg_time+"')")
        db.commit()

```

```

print()

print("YOU HAVE SUCCESSFULLY CREATED YOUR ACCOUNT")


print()

print("PLEASE LOGIN TO THE SITE")

admin=input("ENTER YOUR USERNAME:")

cursor.execute("select admin from admin_login_details where admin='"+admin+"'")

pot=cursor.fetchone()

if pot is not None:

    print("VALID USERNAME!!!!!!")

    p_word=input("ENTER YOUR PASSWORD:")

    cursor.execute("select password from admin_login_details where password='"+p_word+"'")

    a=cursor.fetchone()

    if a is not None:

        print("succesdfully logged in")

        #sign up administrator Book Menu

        while(True):

            print("1:Add Books\n2:Delete Books\n3>Edit books\n4:Direct search\n5:Search By subject
code\n6:View Book chapters\n7:Exit ")

            chs=int(input("Enter your choice:"))

            while(True):

                if chs==1:

                    import book

                    book.b_info()

                elif chs==2:

                    import bk

                    book.Del_book()

                elif chs==3:

                    print("1>Edit Book NO\n2>Edit Title\n3>Edit Subject Code\n4>Edit Author\n5>Edit Publisher\n6>Edit
Price\n7>Edit Quantity\n8>Edit Location\n9>Edit Genre\n10>Edit description\n11.Exit")

                    chs1=int(input("Enter your choice:"))

                    while(True):

                        if chs1==1:

                            import book

```



```
        book.Edit_b_no()
elif chs1==2:
    import book
    book.Edit_title()
elif chs1==3:
    import book
    book.Edit_sj_code()
elif chs1==4:
    import book
    book.Edit_author()
elif chs1==5:
    import book
    book.Edit_publish()
elif chs1==6:
    import book
    book.Edit_price()
elif chs1==7:
    import book
    book.Edit_qty()
elif chs1==8:
    import book
    book.Edit_loc()
elif chs1==9:
    import book
    book.Edit_gen()
elif chs1==10:
    import book
    book.Edit_des()
elif chs1==11:
    print("welcome")
    break
else:
    print("---Please Select Correct Option---")
```

```

elif chs==4:

    print("1:Search By Book No\n2:Search By Book Title\n3:Search By Author\n4:Search By
Publisher\n5.Search By Location\n6:Exit")

    chs2=int(input("Enter your choice:"))

    while(True):

        if chs2==1:

            import search_books

            search_books.sc_bkno()

        elif chs2==2:

            import search_books

            search_books.sc_bkntit()

        elif chs2==3:

            import search_books

            search_books.sc_auth()

        elif chs2==4:

            import search_books

            search_books.sc_pub()

        elif chs2==5:

            import search_books

            search_books.sc_loc()

        elif chs2==6:

            print("welcome")

            break

        else:

            print("---Please Select Correct Option---")

    elif chs==5:

        print("1:Search By Subject Code\n2:Add subject Code\n3>Delete Subject Code\n4>Edit Subject
Code\n5:Exit")

        chs3=int(input("Enter your choice:"))

        while(True):

            if chs3==1:

                import subject

                subject.sc_sjcod()

            elif chs3==2:

```

```

import subject
subject.add_sjcod()
elif chs3==3:
    import subject
    subject.sj_del()
elif chs3==4:
    print("1:Edit Subject Code No\n2:Edit Subject Code Name\n3:Exit")
    chs03=int(input("Enter your choice:"))
    while(True):
        if chs03==1:
            import subject
            subject.sj_editcod()
        elif chs03==2:
            import subject
            subject.sj_editname()
        elif chs03==3:
            print("welcome")
            break
        else:
            print("---Please Select Correct Option---")
    elif chs3==5:
        print("welcome")
        break
    else:
        print("---Please Select Correct Option---")
elif chs==6:
    print("1:View Chapter Information\n2:Add Chapter\n3>Delete Chapter\n4.Edit Chapter\n5:Exit")
    chs06=int(input("Enter your choice:"))
    while(True):
        if chs06==1:
            import chapter
            chapter.vw_chap()
        elif chs06==2:

```

```

import chapter

chapter.add_chap()

elif chs06==3:

    import chapter

    chapter.del_chap()

elif chs06==4:

    print("1:Edit Chapter Book NO\n2:Edit Chapter NO\n3:Edit Chapter Title\n4:Edit Chapter
Starting Page\n5.Edit Chapter Ending Page\n6:Exit")

    chs006=int(input("Enter your choice:"))

    while(True):

        if chs006==1:

            import chapter

            chapter.edit_bnocha()

        elif chs006==2:

            import chapter

            chapter.edit_chano()

        elif chs006==3:

            import chapter

            chapter.edit_title()

        elif chs006==4:

            import chapter

            chapter.edit_stpg()

        elif chs006==5:

            import chapter

            chapter.edit_edpg()

        elif chs006==6:

            print("welcome")

            break

        else:

            print("---Please Select Correct Option---")

elif chs06==5:

    print("welcome")

    break

```

```

        else:
            print("---Please Select Correct Option---")
    elif chs==7:
        print("welcome")
        break
    else:
        print("---Please Select Correct Option---")

else:
    print("""+++++++INCORRECT PASSWORD+++++++""")

else:
    print("""+++++++INVALID USERNAME+++++++""")


#login Administrator books record Menu
elif adm_opt==2:
    admin=input("ENTER YOUR USERNAME:")
    sg_date=time.strftime('%Y-%m-%d')
    sg_time=time.strftime('%H:%M:%S')
    cursor.execute("select admin from admin_login_details where admin='"+admin+"'")
    top=cursor.fetchone()
    if top is not None:
        print("VALID USERNAME!!!!!!")
        p_word=input("ENTER YOUR PASSWORD:")
        cursor.execute("select password from admin_login_details where password='"+p_word+"' ")
        q=cursor.fetchall()
        cursor.execute("insert into admin_login_details
values('"+admin+"','"+p_word+"','"+sg_date+"','"+sg_time+"')")
        db.commit()
        if q is not None:
            print("succesdfully logged in")
            while(True):
                print("1:Add Books\n2:Delete Books\n3>Edit books\n4:Direct search\n5:Search By subject
code\n6:View Book chapters\n7:Exit ")
                chs=int(input("Enter your choice:"))

```

```

while(True):
    if chs==1:
        import book
        book.b_info()
    elif chs==2:
        import book
        book.Del_book()
    elif chs==3:
        print("1:Edit Book NO\n2:Edit Title\n3:Edit Subject Code\n4:Edit Author\n5:Edit Publisher\n6:Edit
Price\n7:Edit Quantity\n8:Edit Location\n9:Edit Genre\n10:Edit description\n11.Exit")
        chs1=int(input("Enter your choice:"))
        while(True):
            if chs1==1:
                import book
                book.Edit_b_no()
            elif chs1==2:
                import book
                book.Edit_title()
            elif chs1==3:
                import book
                book.Edit_sj_code()
            elif chs1==4:
                import book
                book.Edit_author()
            elif chs1==5:
                import book
                book.Edit_publish()
            elif chs1==6:
                import book
                book.Edit_price()
            elif chs1==7:
                import book
                book.Edit_qty()

```

```

elif chs1==8:
    import book
    book.Edit_loc()
elif chs1==9:
    import book
    book.Edit_gen()
elif chs1==10:
    import book
    book.Edit_des()
elif chs1==11:
    print("welcome")
    break
else:
    print("---Please Select Correct Option---")
elif chs==4:
    print("1:Search By Book No\n2:Search By Book Title\n3:Search By Author\n4:Search By
Publisher\n5.Search By Location\n6:Exit")
    chs2=int(input("Enter your choice:"))
    while(True):
        if chs2==1:
            import search_books
            search_books.sc_bkno()
        elif chs2==2:
            import search_books
            search_books.sc_bktit()
        elif chs2==3:
            import search_books
            search_books.sc_auth()
        elif chs2==4:
            import search_books
            search_books.sc_pub()
        elif chs2==5:
            import search_books

```

```

        search_books.sc_loc()
    elif chs2==6:
        print("welcome")
        break
    else:
        print("---Please Select Correct Option---")
elif chs==5:
    print("1:Search By Subject Code\n2:Add subject Code\n3>Delete Subject Code\n4>Edit Subject
Code\n5:Exit")
    chs3=int(input("Enter your choice:"))
    while(True):
        if chs3==1:
            import subject
            subject.sc_sjcod()
        elif chs3==2:
            import subject
            subject.add_sjcod()
        elif chs3==3:
            import subject
            subject.sj_del()
        elif chs3==4:
            print("1>Edit Subject Code No\n2>Edit Subject Code Name\n3:Exit")
            chs03=int(input("Enter your choice:"))
            while(True):
                if chs03==1:
                    import subject
                    subject.sj_editcod()
                elif chs03==2:
                    import subject
                    subject.sj_editname()
                elif chs03==3:
                    print("welcome")
                    break

```



```

        else:
            print("---Please Select Correct Option---")
elif chs3==5:
    print("welcome")
    break
else:
    print("---Please Select Correct Option---")
elif chs==6:
    print("1:View Chapter Information\n2:Add Chapter\n3>Delete Chapter\n4.Edit Chapter\n5:Exit")
    chs06=int(input("Enter your choice:"))
    while(True):
        if chs06==1:
            import chapter
            chapter.vw_chap()
        elif chs06==2:
            import chapter
            chapter.add_chap()
        elif chs06==3:
            import chapter
            chapter.del_chap()
        elif chs06==4:
            print("1:Edit Chapter Book NO\n2:Edit Chapter NO\n3:Edit Chapter Title\n4:Edit Chapter
Starting Page\n5.Edit Chapter Ending Page\n6:Exit")
            chs006=int(input("Enter your choice:"))
            while(True):
                if chs006==1:
                    import chapter
                    chapter.edit_bnocha()
                elif chs006==2:
                    import chapter
                    chapter.edit_chano()
                elif chs006==3:
                    import chapter

```

```

        chapter.edit_title()
    elif chs006==4:
        import chapter
        chapter.edit_stpg()
    elif chs006==5:
        import chapter
        chapter.edit_edpg()
    elif chs006==6:
        print("welcome")
        break
    else:
        print("---Please Select Correct Option---")
elif chs06==5:
    print("welcome")
    break
else:
    print("---Please Select Correct Option---")
elif chs==7:
    print("welcome")
    break
else:
    print("---Please Select Correct Option---")
break
else:
    print("""+++++++INCORRECT PASSWORD+++++++""")
else:
    print("""+++++++INVALID USERNAME+++++++""")

else:
    break

```

## 1.2 Functions Code

### **Books Function:**

```
#connect Sql Database
import mysql.connector
#Add book Information
def b_info():
    try:
        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
        cursor=db.cursor(buffered=True)
        cursor.execute("create database if not exists abc_store")
```

```
cursor.execute("use abc_store")
```

```
cursor.execute("create table if not exists Books_info(book_no int(50) primary key,title varchar(100),subject_code  
varchar(50),author varchar(50),publisher varchar(50),price decimal(60,6),quantity int(50),location varchar(50),genre  
char(50),description varchar(100))")
```

```
query=("insert into books_info values(%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)")
```

```
book_no=int(input("Enter Book Number:"))
```

```
title =str(input("Enter The Book Title:"))
```

```
sub_co=str(input("Enter The subject Code:"))
```

```
author=str(input("Enter The Author Name:"))
```

```
publi=str(input("Enter The Publisher Name:"))
```

```
price=int(input("Enter Price:"))
```

```
quantity=int(input("Enter Book quantity:"))
```

```
location=str(input("Enter The Location:"))
```

```
genre=str(input("Enter The Book Genre:"))
```

```
descr=str(input("Enter The Book Description:"))
```

```
data=(book_no,title,sub_co,author,publi,price,quantity,location,genre,descr)
```

```
cursor.execute(query,data)
```

```
db.commit()
```

```
cursor.close()
```

```
db.close
```

```
print("added")
```

```
except:
```

```
db.close()
```

```
#Delete Books
```

```
def Del_book():
```

```
try:
```

```
db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
```

```
cursor=db.cursor(buffered=True)
```

```
bno=int(input("Enter Book No:"))
```

```
dele=("delete from books_info where book_no=%s")
```

```
val=(bno,)
```

```

        cursor.execute(dele, val)

        db.commit()

        print(cursor.rowcount, "record deleted")
except:

    db.close()

#Edit Book Number

def Edit_b_no():

    try:

        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")

        cursor=db.cursor(buffered=True)

        bno=int(input("Enter Book NO:"))

        ch_no=int(input("Enter The New Book No to Update:"))

        c_query=("update books_info set book_no=%s where book_no=%s")

        data=(ch_no,bno)

        cursor.execute(c_query,data)

        db.commit()

        print(cursor.rowcount,"records affected")

        cursor.close()

        db.close

    except:

        db.close

#Edit Book Title

def Edit_title():

    try:

        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")

        cursor=db.cursor(buffered=True)

        bno=int(input("Enter Book NO:"))

        ch_title=str(input("Enter The New Title Name to Update:"))

        c_query=("update books_info set title=%s where book_no=%s")

        data=(ch_title,bno)

        cursor.execute(c_query,data)

        db.commit()

        print(cursor.rowcount,"records affected")

        cursor.close()

```

```

        db.close

except:

    db.close

#Edit Subject Code

def Edit_sj_code():

    try:

        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")

        cursor=db.cursor(buffered=True)

        bno=int(input("Enter Book NO:"))

        ch_sjc=int(input("Enter The New Subject Code to Update:"))

        c_query=("update books_info set subject_code=%s where book_no=%s")

        data=(ch_sjc,bno)

        cursor.execute(c_query,data)

        db.commit()

        print(cursor.rowcount,"records affected")

        cursor.close()

        db.close

    except:

        db.close

#Edit author

def Edit_author():

    try:

        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")

        cursor=db.cursor(buffered=True)

        bno=int(input("Enter Book NO:"))

        ch_author=str(input("Enter The New Author Name to Update:"))

        c_query=("update books_info set author=%s where book_no=%s")

        data=(ch_author,bno)

        cursor.execute(c_query,data)

        db.commit()

        print(cursor.rowcount,"records affected")

        cursor.close()

        db.close

    except:

```

```

    db.close

#Edit Publisher

def Edit_publish():

    try:

        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")

        cursor=db.cursor(buffered=True)

        bno=int(input("Enter Book NO:"))

        ch_publish=str(input("Enter The New Publisher Name to Update:"))

        c_query=("update books_info set publisher=%s where book_no=%s")

        data=(ch_publish,bno)

        cursor.execute(c_query,data)

        db.commit()

        print(cursor.rowcount,"records affected")

        cursor.close()

        db.close

    except:

        db.close

#Edit Price

def Edit_price():

    try:

        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")

        cursor=db.cursor(buffered=True)

        bno=int(input("Enter Book NO:"))

        ch_price=int(input("Enter The New Price to Update:"))

        c_query=("update books_info set price=%s where book_no=%s")

        data=(ch_price,bno)

        cursor.execute(c_query,data)

        db.commit()

        print(cursor.rowcount,"records affected")

        cursor.close()

        db.close

    except:

        db.close

#Edit Quantity

```

```

def Edit_qty():
    try:
        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
        cursor=db.cursor(buffered=True)
        bno=int(input("Enter Book NO:"))
        ch_qty=int(input("Enter The New Quantity to Update:"))
        c_query=("update books_info set quantity=%s where book_no=%s")
        data=(ch_qty,bno)
        cursor.execute(c_query,data)
        db.commit()
        print(cursor.rowcount,"records affected")
        cursor.close()
        db.close
    except:
        db.close

#Edit LLocation
def Edit_loc():
    try:
        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
        cursor=db.cursor(buffered=True)
        bno=int(input("Enter Book NO:"))
        ch_loc=str(input("Enter The New Location to Update:"))
        c_query=("update books_info set location=%s where book_no=%s")
        data=(ch_loc,bno)
        cursor.execute(c_query,data)
        db.commit()
        print(cursor.rowcount,"records affected")
        cursor.close()
        db.close
    except:
        db.close

#Edit Genre
def Edit_gen():
    try:

```



```

db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
cursor=db.cursor(buffered=True)
bno=int(input("Enter Book NO:"))
ch_gen=str(input("Enter The New Genre to Update:"))
c_query=("update books_info set genre=%s where book_no=%s")
data=(ch_gen,bno)
cursor.execute(c_query,data)
db.commit()
print(cursor.rowcount,"records affected")
cursor.close()
db.close

except:
    db.close

#Edit Description
def Edit_des():
    try:
        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
        cursor=db.cursor(buffered=True)
        bno=int(input("Enter Book NO:"))
        ch_des=str(input("Enter The New Description to Update:"))
        c_query=("update books_info set description=%s where book_no=%s")
        data=(ch_des,bno)
        cursor.execute(c_query,data)
        db.commit()
        print(cursor.rowcount,"records affected")
        cursor.close()
        db.close
    except:
        db.close

```

## Chapter Code:

```
#Connect Sql database
```

```

import mysql.connector

#view book chapters

def vw_chap():
    try:
        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
        cursor=db.cursor(buffered=True)

        bno=int(input("Enter Book No:"))
        query=("select * from chapters where book_no=%s")
        val=(bno,)
        cursor.execute(query,val)
        sc=cursor.fetchone()
        if sc:
            print("BOOKNO\tCHAPTERNO\tTITLE\tSTARTING_PAGE_NO\tENDING_PAGE_NO")
            print(sc[0],"\t",sc[1],"\t\t",sc[2],"\t",sc[3],"\t\t\t",sc[4])
            db.commit()
            cursor.close()
            db.close
        except:
            db.close

#Adding Book chapter

def add_chap():
    try:
        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
        cursor=db.cursor(buffered=True)
        cursor.execute("create database if not exists abc_store")
        cursor.execute("use abc_store")
        cursor.execute("create table if not exists chapters(book_no int(50),chapter_no varchar(20),title
varchar(50),starting_page_no int(30),ending_page_no int(30),FOREIGN KEY(book_no) REFERENCES
books_info(book_no))")

        count=1
        cursor.execute("select book_no from books_info")
        sc=cursor.fetchall()

```

```

if sc:
    print("BOOKNO")
    for sc1 in sc:
        print(sc1[0])
        count=count+1

query=("insert into chapters values(%s,%s,%s,%s,%s)")
bno=int(input("Enter Book Number:"))
ch_no=int(input("Enter The Chapter Number:"))
ch_tit=str(input("Enter The Chapter Title:"))
st_pg=int(input("Enter the Starting Page NO:"))
ed_pg=int(input("Enter the Ending Page NO:"))
data=(bno,ch_no,ch_tit,st_pg,ed_pg,)
cursor.execute(query,data)
db.commit()
print("Added To The Chapters")
cursor.close()
db.close

except:
    db.close

#delete chapter
def del_chap():
    try:
        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
        cursor=db.cursor(buffered=True)
        bno=int(input("Enter Book No:"))
        dele=("delete from chapters where book_no=%s")
        val=(bno,)
        cursor.execute(dele,val)
        db.commit()
        print(cursor.rowcount,"record deleted")
        cursor.close
        db.close
    except:

```

```

        db.close

#Edit Book chapter Number

def edit_bnocha():

    try:

        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")

        cursor=db.cursor(buffered=True)

        bno=int(input("Enter Book NO:"))

        ch_no=int(input("Enter The New Book No to Update:"))

        c_query=("update chapters set book_no=%s where book_no=%s")

        data=(ch_no,bno)

        cursor.execute(c_query,data)

        db.commit()

        print(cursor.rowcount,"records affected")

        cursor.close()

        db.close

    except:

        db.close

#Edit Chapter Number

def edit_chano():

    try:

        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")

        cursor=db.cursor(buffered=True)

        chap_no=int(input("Enter Chapter NO:"))

        ch_no1=int(input("Enter The New Chapter to Update:"))

        c_query=("update chapters set chapter_no=%s where chapter_no=%s")

        data=(ch_no1,chap_no)

        cursor.execute(c_query,data)

        db.commit()

        print(cursor.rowcount,"records affected")

        cursor.close()

        db.close

    except:

        db.close

#Edit chapter Title

```

```

def edit_title():
    try:
        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
        cursor=db.cursor(buffered=True)
        ch_ti=str(input("Enter chapter Title:"))
        ch_title=str(input("Enter The New Title Name to Update:"))
        c_query=("update chapters set title=%s where title=%s")
        data=(ch_title,ch_ti)
        cursor.execute(c_query,data)
        db.commit()
        print(cursor.rowcount,"records affected")
        cursor.close()
        db.close
    except:
        db.close

```

#Edit starting Page Number

```

def edit_stpg():
    try:
        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
        cursor=db.cursor(buffered=True)
        ch_st=int(input("Enter chapter Starting Page NO:"))
        ch_stp=int(input("Enter The New chapter Starting Page NO to Update:"))
        c_query=("update chapters set starting_page_no=%s where starting_page_no=%s")
        data=(ch_stp,ch_st)
        cursor.execute(c_query,data)
        db.commit()
        print(cursor.rowcount,"records affected")
        cursor.close()
        db.close
    except:
        db.close

```

#Edit Ending Page Number

```

def edit_edpg():
    try:

```

```

db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
cursor=db.cursor(buffered=True)
ch_ed=int(input("Enter chapter Ending Page NO:"))
ch_end=int(input("Enter The New chapter Ending Page NO to Update:"))
c_query=("update chapters set ending_page_no=%s where ending_page_no=%s")
data=(ch_end,ch_ed)
cursor.execute(c_query,data)
db.commit()
print(cursor.rowcount,"records affected")
cursor.close()
db.close

except:
    db.close

```

### Subjct Code:

```

#connect sql Database
import mysql.connector
#Add subject code
def add_sjcod():
    try:
        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
        cursor=db.cursor(buffered=True)
        cursor.execute("create database if not exists abc_store")
        cursor.execute("use abc_store")
        cursor.execute("create table if not exists subject(subject_code varchar(50),name char(50),FOREIGN
KEY(subject_code) REFERENCES books_info(subject_code))")
        db.commit()

        cursor.execute("select subject_code from books_info")
        res=cursor.fetchall()
        for subject_code in res:
            print(subject_code)
        query=("insert into subject values(%s,%s)")

```

```

sub_co=int(input("Enter The Subject Code to Add:"))
sub_name=str(input("Enter The Subject Name to Add :"))
data=(sub_co,sub_name)
cursor.execute(query,data)
db.commit()
cursor.close()
db.close
print("subject values added")
except:
    db.close

#search By subject code
def sc_sjcod():
    try:
        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
        cursor=db.cursor(buffered=True)
        count=1
        cursor.execute("select * from subject")
        sc=cursor.fetchall()
        if sc:
            print("SUBJECT-CODE\tNAME")
            for sc1 in sc:
                print(sc1[0],"\t\t",sc1[1])
                count=count+1
        sj_id=int(input("Enter The Subject Code:"))
        query=("select * from books_info where subject_code=%s")
        data=(sj_id,)
        cursor.execute(query,data)
        bc=cursor.fetchall()
        if bc:
            print("BOOK_NO\tTITLE\tSUBJECT-
CODE\tAUTHOR\tPUBLISHER\tPRICE\tQUANTITY\tLOCATION\tGENRE\tDESCRIPTION")
            for bc1 in bc:

```

```

print(bc1[0],"\t",bc1[1],"\t",bc1[2],"\t\t",bc1[3],"\t",bc1[4],"\t\t",bc1[5],"\t",bc1[6],"\t\t",bc1[7],"\t\t",bc1[8],"\t",bc1[9]
)

        count=count+1

        cursor.close()

        db.close

except:

        db.close

#delete subject code

def sj_del():

    try:

        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")

        cursor=db.cursor(buffered=True)

        sj_no=str(input("Enter Subject code To delete:"))

        dele=("delete from subject where subject_code=%s")

        val=(sj_no,)

        cursor.execute(dele,val)

        db.commit()

        print(cursor.rowcount,"record deleted")

        cursor.close

        db.close

    except:

        db.close

#Edit subject code

def sj_editcod():

    try:

        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")

        cursor=db.cursor(buffered=True)

        count=1

        cursor.execute("select * from subject")

        sc=cursor.fetchall()

        if sc:

            print("SUBJECT-CODE\tNAME")

            for sc1 in sc:

                print(sc1[0],"\t\t",sc1[1])

```



```

        count=count+1

sj_id=int(input("Enter The Subject Code:"))
ch_id1=int(input("Enter The New Subject code to Update:"))
query=("update subject set subject_code=%s where subject_code=%s")
data=(ch_id1,sj_id)
cursor.execute(query,data)
db.commit()
cursor.close()
db.close

print("subject values affected")
except:
    db.close

#Edit Subject Name
def sj_editname():
    try:
        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
        cursor=db.cursor(buffered=True)
        count=1
        cursor.execute("select * from subject")
        sc=cursor.fetchall()
        if sc:
            print("SUBJECT-CODE\tNAME")
            for sc1 in sc:
                print(sc1[0],"\t\t",sc1[1])
                count=count+1

        sj_id=int(input("Enter The Subject Code:"))
        ch_title=str(input("Enter The New Subject Name to Update:"))
        query=("update subject set name=%s where subject_code=%s")
        data=(ch_title,sj_id)
        cursor.execute(query,data)
        db.commit()
        cursor.close()
        db.close

        print("subject values affected")

```

```
except:
    db.close
```

### **Search Books code:**

```
#Connect sql database
import mysql.connector

def sc_bkno():
    try:
        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
        cursor=db.cursor(buffered=True)
        book_no=int(input("Enter The Book No:"))
        query=("select * from books_info where book_no=%s")
        data=(book_no,)
        cursor.execute(query,data)
        bc=cursor.fetchone()
        if bc:
            print("BOOK_NO\tTITLE\tSUBJECT-
CODE\tAUTHOR\tPUBLISHER\tPRICE\tQUANTITY\tLOCATION\tGENRE\tDESCRIPTION")
            print(bc[0],"\t",bc[1],"\t",bc[2],"\t\t",bc[3],"\t",bc[4],"\t\t",bc[5],"\t",bc[6],"\t\t",bc[7],"\t\t",bc[8],"\t",bc[9])
            cursor.close()
            db.close
    except:
        db.close

#Search by title
def sc_bktit():
    try:
        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")
        cursor=db.cursor(buffered=True)
        book_title=str(input("Enter The Book Title:"))
        query=("select * from books_info where title=%s")
        data=(book_title,)
        cursor.execute(query,data)
        bc=cursor.fetchone()
        if bc:
```

```

        print("BOOK_NO\tTITLE\tSUBJECT-
CODE\tAUTHOR\tPUBLISHER\tPRICE\tQUANTITY\tLOCATION\tGENRE\tDESCRIPTION")

        print(bc[0],"\t",bc[1],"\t",bc[2],"\t\t",bc[3],"\t",bc[4],"\t\t",bc[5],"\t",bc[6],"\t\t",bc[7],"\t\t",bc[8],"\t",bc[9])

        cursor.close()

        db.close

    except:

        db.close

#Search by author

def sc_auth():

    try:

        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")

        cursor=db.cursor(buffered=True)

        count=0

        book_auth=str(input("Enter The Book Author:"))

        query=("select * from books_info where author=%s")

        data=(book_auth,)

        cursor.execute(query,data)

        bc=cursor.fetchall()

        if bc:

            print("BOOK_NO\tTITLE\tSUBJECT-
CODE\tAUTHOR\tPUBLISHER\tPRICE\tQUANTITY\tLOCATION\tGENRE\tDESCRIPTION")

            for bc1 in bc:

                print(bc1[0],"\t",bc1[1],"\t",bc1[2],"\t\t",bc1[3],"\t",bc1[4],"\t\t",bc1[5],"\t",bc1[6],"\t\t",bc1[7],"\t\t",bc1[8],"\t",bc1[9]
                )

                count=count+1

                cursor.close()

                db.close

    except:

        db.close

#Search by publisher

def sc_pub():

    try:

        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")

        cursor=db.cursor(buffered=True)

        count=0

```

```

book_pub=str(input("Enter The Book Publisher:"))

query=("select * from books_info where publisher=%s")

data=(book_pub,)

cursor.execute(query,data)

bc=cursor.fetchall()

if bc:

    print("BOOK_NO\tTITLE\tSUBJECT-
CODE\tAUTHOR\tPUBLISHER\tPRICE\tQUANTITY\tLOCATION\tGENRE\tDESCRIPTION")

    for bc1 in bc:

print(bc1[0],"\t",bc1[1],"\t",bc1[2],"\t\t",bc1[3],"\t",bc1[4],"\t\t",bc1[5],"\t",bc1[6],"\t\t",bc1[7],"\t\t",bc1[8],"\t",bc1[9]
)

        count=count+1

        cursor.close()

        db.close

except:

    db.close

#Search by location

def sc_loc():

    try:

        db=mysql.connector.connect(host="localhost",database="abc_store",user="root",password="")

        cursor=db.cursor(buffered=True)

        count=0

        book_loc=str(input("Enter The Book Location:"))

        query=("select * from books_info where location=%s")

        data=(book_loc,)

        cursor.execute(query,data)

        bc=cursor.fetchall()

        if bc:

            print("BOOK_NO\tTITLE\tSUBJECT-
CODE\tAUTHOR\tPUBLISHER\tPRICE\tQUANTITY\tLOCATION\tGENRE\tDESCRIPTION")

            for bc1 in bc:

print(bc1[0],"\t",bc1[1],"\t",bc1[2],"\t\t",bc1[3],"\t",bc1[4],"\t\t",bc1[5],"\t",bc1[6],"\t\t",bc1[7],"\t\t",bc1[8],"\t",bc1[9]
)

                count=count+1

```

```
cursor.close()
```

```
db.close
```

```
except:
```

```
db.close
```

### 3. Test Case Table

Table 1-Test case Table

Test Case No	Test Description	Expected Output	Actual Output	Remarks
Test case_1	Login as administrator	Logged into the site	Logged into the site	Pass
Test case_2	Adding books to database	Books information added to the database	Books information added to the database	pass
Test case_3	Delete books in database	Books information deleted in the database	Books information deleted in the database	pass
Test case_4	Different fields edit options	Option to Edit required fields	Option to Edit required fields	pass
Test case_5	Edit subject code	Changed subject code	Changed subject code	pass
Test case_5	View Book chapter	View required book chapter	View required book chapter	pass
Test case_6	Add book chapter	Adding book chapter information	Adding book chapter information	pass
Test case_7	Search by subject	Display information book For subject	Display information book For subject	pass
Test case_8	Search by book Number	Display information book For Book Number	Display information book For Book Number	pass
Test case_9	Edit book Number	Changed book number	Changed book number	pass
Test case_10	Add description to the book	Changed description	Changed description	pass
Test case_11	Sign up function	Account Created	Account Created	pass

## 4. Screenshots of Test Cases

## Test Case01

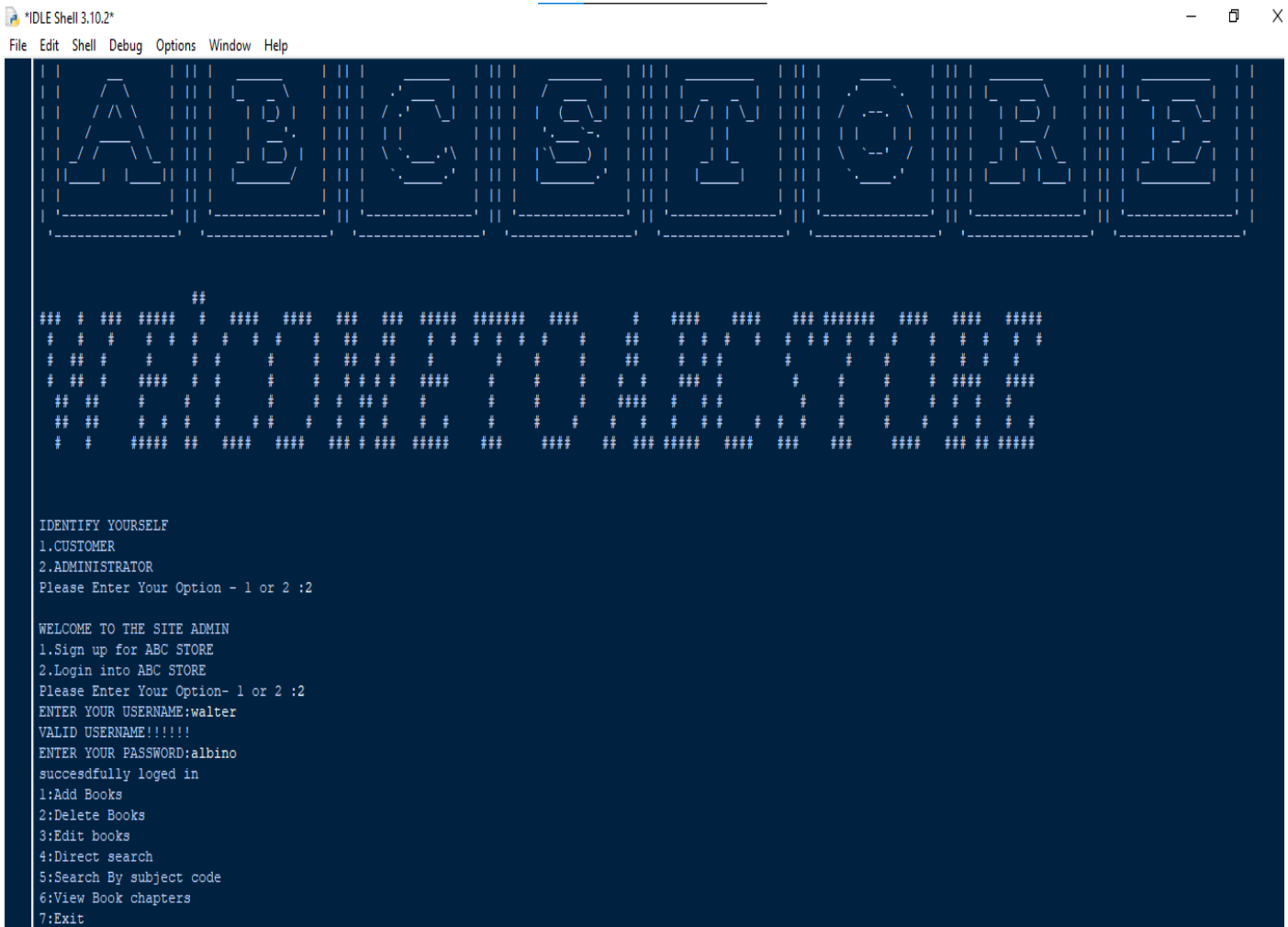


Figure 1-test case01

## Test Case 02

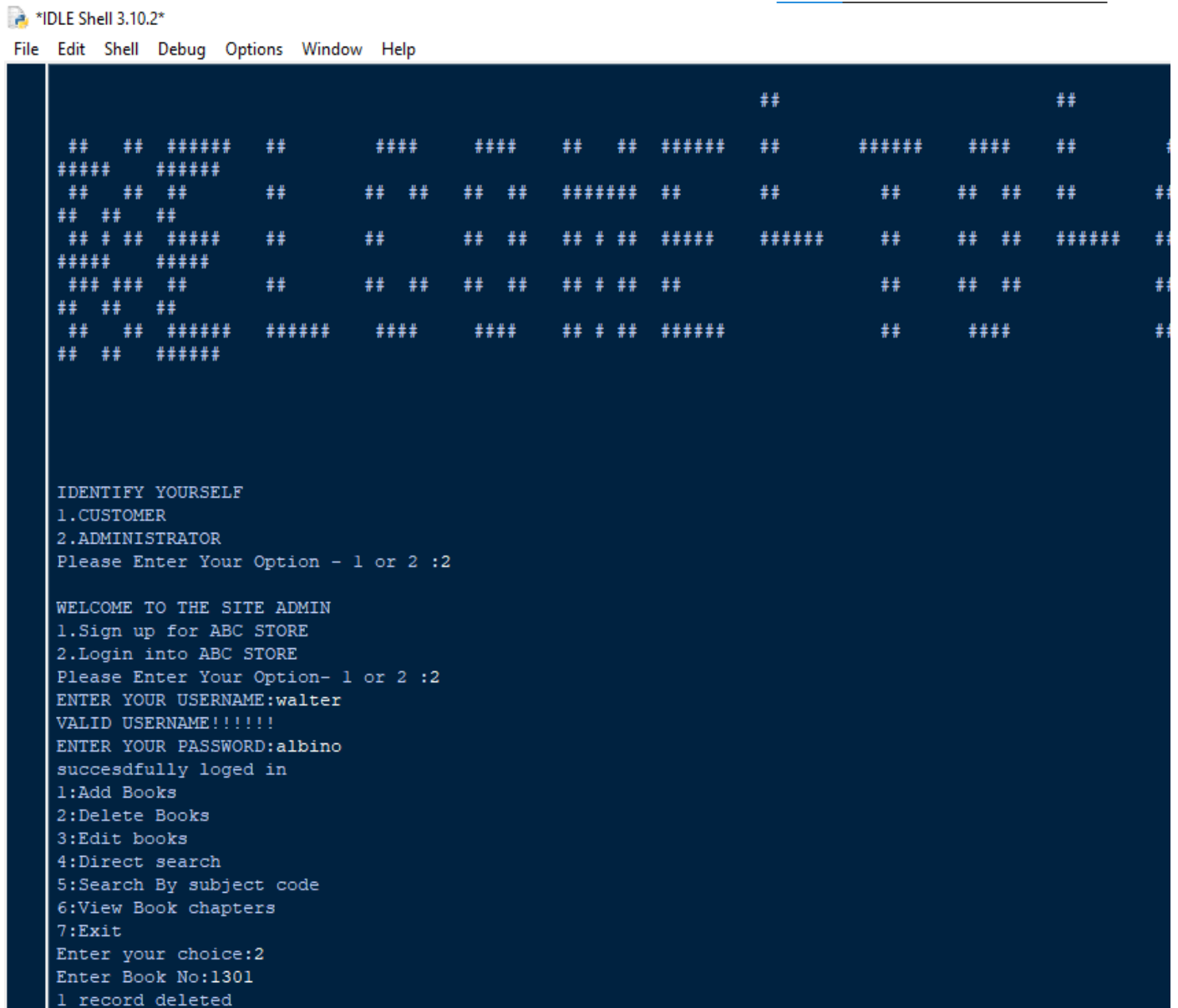
```
IDENTIFY YOURSELF
1.CUSTOMER
2.ADMINISTRATOR
Please Enter Your Option - 1 or 2 :2

WELCOME TO THE SITE ADMIN
1.Sign up for ABC STORE
2.Login into ABC STORE
Please Enter Your Option- 1 or 2 :2
ENTER YOUR USERNAME:walter
VALID USERNAME!!!!!!
ENTER YOUR PASSWORD:albino
succesdfully logged in
1:Add Books
2:Delete Books
3:Edit books
4:Direct search
5:Search By subject code
6:View Book chapters
7:Exit
Enter your choice:1
Enter Book Number:1301
Enter The Book Title:Jane Eyre
Enter The subject Code:Nill
Enter The Author Name:Charlotte
Enter The Publisher Name:Smith, Elder And Co.
Enter Price:1400
Enter Book quantity:3
Enter The Location:America
Enter The Book Genre:Romance
Enter The Book Description:The novel follows the story of Jane
added
```

Figure 2-testcase02



## Test Case 03



```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

## ##

## ## ##### ##      ####  ####  ##  ## ##### ##      #####  ####  ##
##### #####
## ## ##      ##      ## ##  ## ##  ##### ##      ##      ## ##  ##
## ## ##
## # ## ##### ##      ##      ## ##  ## # ## #####  #####  ##      ## ##  #####
##### #####
### ## ##      ##      ## ##  ## ##  ## # ## ##
## ## ##
## ## ##### #####  ####  ####  ## # ## #####      ##      ####
## ## #####

IDENTIFY YOURSELF
1.CUSTOMER
2.ADMINISTRATOR
Please Enter Your Option - 1 or 2 :2

WELCOME TO THE SITE ADMIN
1.Sign up for ABC STORE
2.Login into ABC STORE
Please Enter Your Option- 1 or 2 :2
ENTER YOUR USERNAME:walter
VALID USERNAME!!!!!!
ENTER YOUR PASSWORD:albino
succesdfully logged in
1:Add Books
2:Delete Books
3>Edit books
4:Direct search
5:Search By subject code
6:View Book chapters
7:Exit
Enter your choice:2
Enter Book No:l30l
1 record deleted
```

Figure 3-test case03

## Test Case 04

```
File Edit Shell Debug Options Window Help
[.] [..][.....][...] [....] [....] [..] [..][.....] [..] [....] [..] [..][....] [..]
[....] [..] [..][.....]

IDENTIFY YOURSELF
1.CUSTOMER
2.ADMINISTRATOR
Please Enter Your Option - 1 or 2 :2

WELCOME TO THE SITE ADMIN
1.Sign up for ABC STORE
2.Login into ABC STORE
Please Enter Your Option- 1 or 2 :2
ENTER YOUR USERNAME:walter
VALID USERNAME!!!!!!
ENTER YOUR PASSWORD:albino
succesdfully logged in
1:Add Books
2:Delete Books
3:Edit books
4:Direct search
5:Search By subject code
6:View Book chapters
7:Exit
Enter your choice:3
1:Edit Book NO
2:Edit Title
3:Edit Subject Code
4:Edit Author
5:Edit Publisher
6:Edit Price
7:Edit Quantity
8:Edit Location
9:Edit Genre
10:Edit description
11.Exit
Enter your choice:3
Enter Book NO:1678
Enter The New Subject Code to Update:1679
1 records affected
```

Figure 4-test case04

## Test Case 05

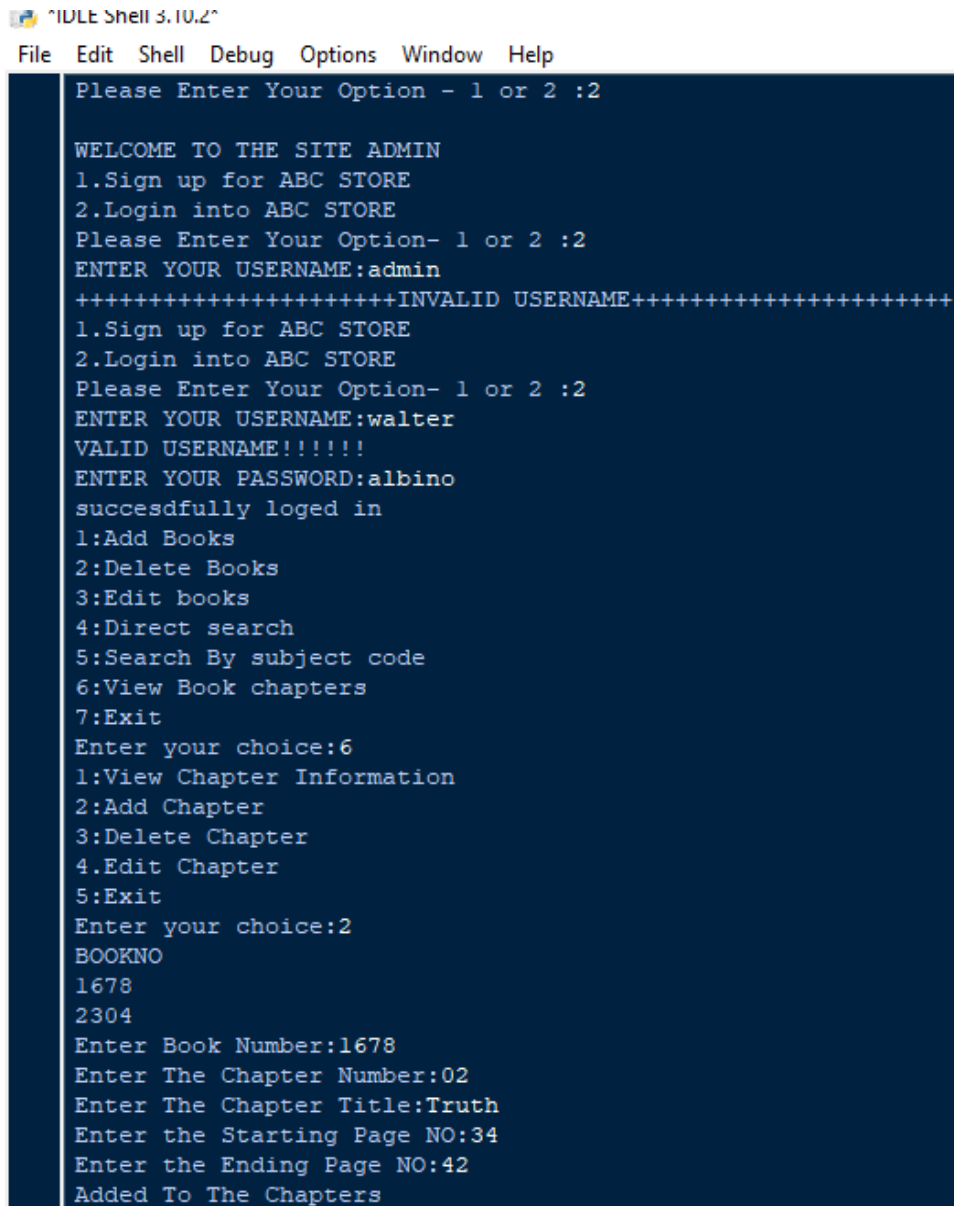
```
File Edit Shell Debug Options Window Help
[... ..]
[... ..]

IDENTIFY YOURSELF
1.CUSTOMER
2.ADMINISTRATOR
Please Enter Your Option - 1 or 2 :2

WELCOME TO THE SITE ADMIN
1.Sign up for ABC STORE
2.Login into ABC STORE
Please Enter Your Option- 1 or 2 :2
ENTER YOUR USERNAME:walter
VALID USERNAME!!!!!!
ENTER YOUR PASSWORD:albino
succesdfully loged in
1:Add Books
2>Delete Books
3>Edit books
4:Direct search
5:Search By subject code
6:View Book chapters
7:Exit
Enter your choice:3
1:Edit Book NO
2:Edit Title
3:Edit Subject Code
4:Edit Author
5:Edit Publisher
6:Edit Price
7:Edit Quantity
8:Edit Location
9:Edit Genre
10:Edit description
11.Exit
Enter your choice:3
Enter Book NO:1678
Enter The New Subject Code to Update:1679
1 records affected
```

Figure 5-test case05

## Test Case 06



```
^IDLE Shell 3.10.2"
File Edit Shell Debug Options Window Help

Please Enter Your Option - 1 or 2 :2

WELCOME TO THE SITE ADMIN
1.Sign up for ABC STORE
2.Login into ABC STORE
Please Enter Your Option- 1 or 2 :2
ENTER YOUR USERNAME:admin
++++++INVALID USERNAME++++++
1.Sign up for ABC STORE
2.Login into ABC STORE
Please Enter Your Option- 1 or 2 :2
ENTER YOUR USERNAME:walter
VALID USERNAME!!!!!!
ENTER YOUR PASSWORD:albino
succesdfully loged in
1:Add Books
2:Delete Books
3:Edit books
4:Direct search
5:Search By subject code
6:View Book chapters
7:Exit
Enter your choice:6
1:View Chapter Information
2:Add Chapter
3:Delete Chapter
4.Edit Chapter
5:Exit
Enter your choice:2
BOOKNO
1678
2304
Enter Book Number:1678
Enter The Chapter Number:02
Enter The Chapter Title:Truth
Enter the Starting Page NO:34
Enter the Ending Page NO:42
Added To The Chapters
```

Figure 6-test case06

## Test Case 07

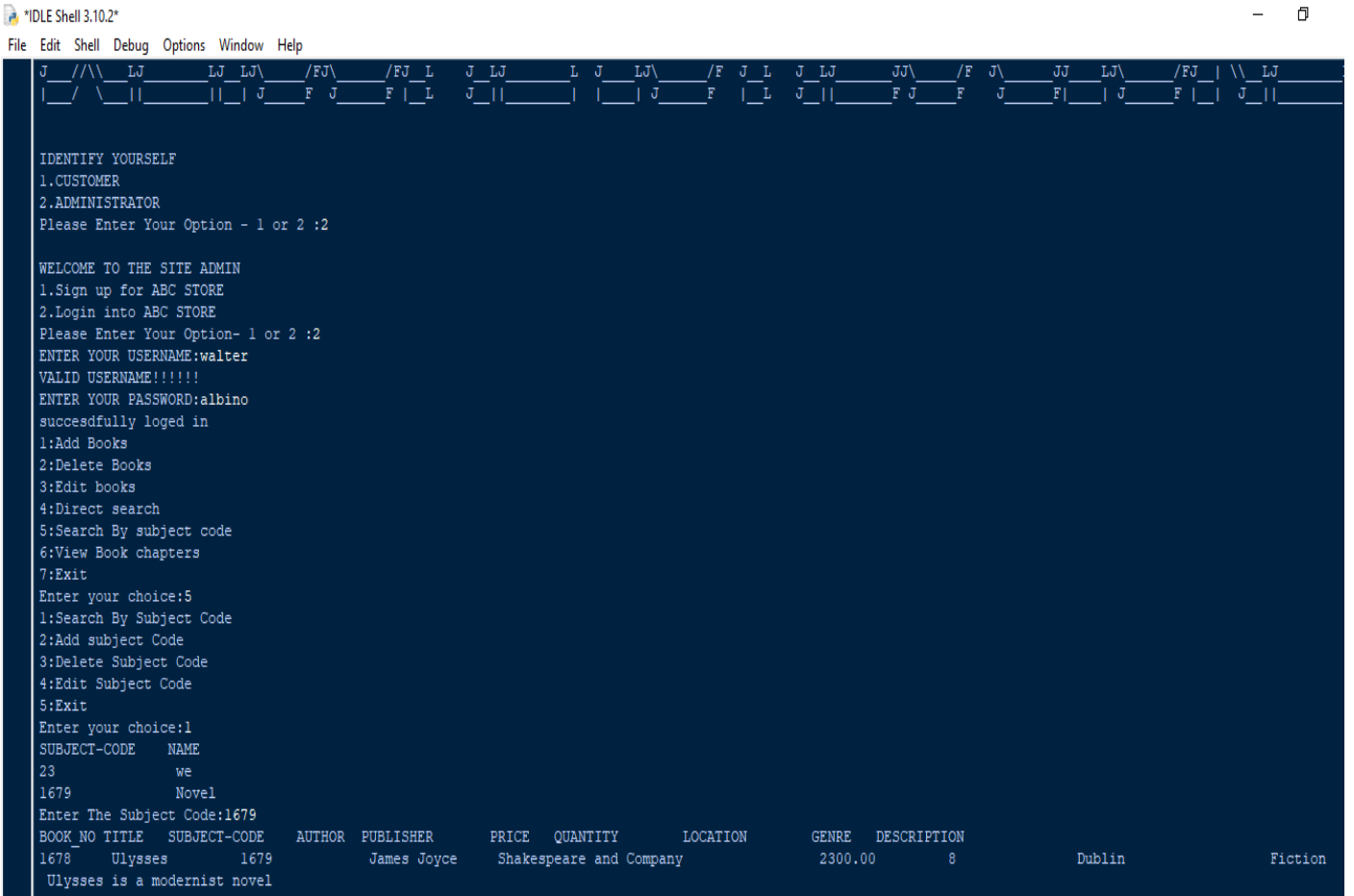


Figure 7-test case07

```
*IDLE Shell 3.10.2*
```

```
File Edit Shell Debug Options Window Help
```

```
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|-----' |-----' |-----' |-----' |-----' |-----' |-----' |-----'
```

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( ^ ) ( ) ( ) \ ) ( ) (\V\ ) ( ) ( ) ( ) / \ ) ( / ( ) ( ) \ ) ( )
```

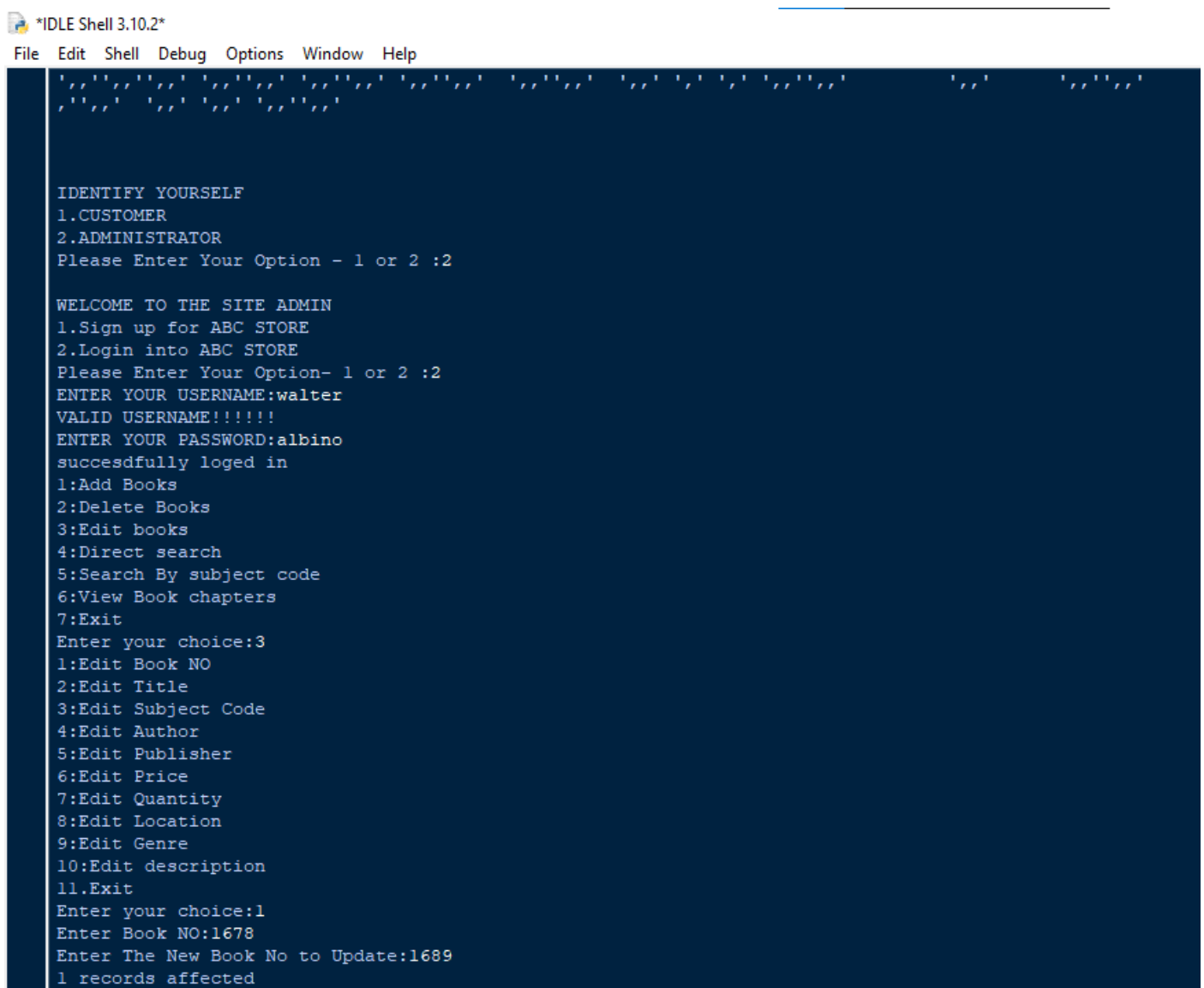
```
IDENTIFY YOURSELF  
1.CUSTOMER  
2.ADMINISTRATOR  
Please Enter Your Option - 1 or 2 :2
```

```
WELCOME TO THE SITE ADMIN  
1.Sign up for ABC STORE  
2.Login into ABC STORE  
Please Enter Your Option- 1 or 2 :2  
ENTER YOUR USERNAME:walter  
VALID USERNAME!!!!!!  
ENTER YOUR PASSWORD:albino  
succesdfully loged in  
1:Add Books  
2>Delete Books  
3>Edit books  
4:Direct search  
5:Search By subject code  
6:View Book chapters  
7:Exit  
Enter your choice:4  
1:Search By Book No  
2:Search By Book Title  
3:Search By Author  
4:Search By Publisher  
5.Search By Location  
6:Exit  
Enter your choice:1  
Enter The Book No:l678
```

BOOK_NO	TITLE	SUBJECT-CODE	AUTHOR	PUBLISHER	PRICE	QUANTITY	LOCATION	GENRE	DESCRIPTION
l678	Ulysses	1679	James Joyce	Shakespeare and Company	2300.00	8	Dublin	Fiction	Ulysses is a modernist novel

54

## Test Case 09



```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

IDENTIFY YOURSELF
1.CUSTOMER
2.ADMINISTRATOR
Please Enter Your Option - 1 or 2 :2

WELCOME TO THE SITE ADMIN
1.Sign up for ABC STORE
2.Login into ABC STORE
Please Enter Your Option- 1 or 2 :2
ENTER YOUR USERNAME:walter
VALID USERNAME!!!!!!
ENTER YOUR PASSWORD:albino
succesdfully loged in
1:Add Books
2>Delete Books
3:Edit books
4:Direct search
5:Search By subject code
6:View Book chapters
7:Exit
Enter your choice:3
1:Edit Book NO
2:Edit Title
3:Edit Subject Code
4:Edit Author
5:Edit Publisher
6:Edit Price
7:Edit Quantity
8:Edit Location
9:Edit Genre
10:Edit description
11.Exit
Enter your choice:1
Enter Book NO:1678
Enter The New Book No to Update:1689
1 records affected
```

Figure 9-test case09

## Test Case 10

```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

| :/\: || (\V) || :/\: || :/\: || :/\: || (\V) || (\V) |((5)) | :/\: || :/\: |((5)) | (\V) || :(): || :/\:
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| '--'W|| '--'E|| '--'L|| '--'C|| '--'O|| '--'M|| '--'E| ((1)) | '--'T|| '--'O| ((1)) | '--'A|| '--'B|| '--'C
| '-----' | '-----' | '-----' | '-----' | '-----' | '-----' | '-----' | '-----' | '-----' | '-----'

IDENTIFY YOURSELF
1.CUSTOMER
2.ADMINISTRATOR
Please Enter Your Option - 1 or 2 :2

WELCOME TO THE SITE ADMIN
1.Sign up for ABC STORE
2.Login into ABC STORE
Please Enter Your Option- 1 or 2 :2
ENTER YOUR USERNAME:walter
VALID USERNAME!!!!!!
ENTER YOUR PASSWORD:albino
succesdfully logged in
1:Add Books
2:Delete Books
3:Edit books
4:Direct search
5:Search By subject code
6:View Book chapters
7:Exit
Enter your choice:3
1:Edit Book NO
2:Edit Title
3:Edit Subject Code
4:Edit Author
5:Edit Publisher
6:Edit Price
7:Edit Quantity
8:Edit Location
9:Edit Genre
10:Edit description
11.Exit
Enter your choice:10
Enter Book NO:1689
Enter The New Description to Update:talk about modern changes
1 records affected
```

Figure 10-test case10



## Test Case 11

```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\Cwp\Mainprogram.py =====

      _____
     /  _  _  _  \
    /  _  _  _  \
   /  _  _  _  \
  /  _  _  _  \
 /  _  _  _  \
/  _  _  _  \
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  \  _  _  /
   \  _  /
    \  _/
     \_/

WELCOME TO THE SITE ADMIN
1.Sign up for ABC STORE
2.Login into ABC STORE
Please Enter Your Option- 1 or 2 :2

WELCOME TO THE SITE ADMIN
1.Sign up for ABC STORE
2.Login into ABC STORE
Please Enter Your Option- 1 or 2 :1
ENTER YOUR USERNAME:charlie
ENTER YOUR PASSWORD:great_den

YOU HAVE SUCCESSFULLY CREATED YOUR ACCOUNT

PLEASE LOGIN TO THE SITE
ENTER YOUR USERNAME:|
```

Figure 11-test case11

## Reference for the package

Haghighi, S. (n.d.). *art: ASCII Art Library For Python*. [online] PyPI. Available at: <https://pypi.org/project/art/>.