

# Main module 1: Library Management

```
import menulib

import book

import issue

while True:

    book.clrscreen()

    print('\t\t\t library management\n')

    print('=====')

    print('1.book management      ')

    print('2.members managements    ')

    print('3.issue/return book      ')

    print('4.exit                    ')

    print('=====')

    choice=int(input('enter choice between 1 to 4 .....>:'))

    if choice==1:

        menulib.menubook()

    elif choice==2:

        menulib.menumember()

    elif choice==3:

        menulib.menuissuereturn()

    elif choice==4:

        break

    else:

        print('wrong choice....enter your choice again')

        x=input('enter any key to continue')
```

## Module 2: Menu

```
import book

import member

import issue

def menubook():

    while True:

        book.clrscreen()

        print("\t\t\t book record management\n")

        print('=====')

        print('1.add book record      ')

        print('2.display book records  ')

        print('3.search book record    ')

        print('4.delete book record    ')

        print('5.update book record    ')

        print('6.return to main menu   ')

        print('=====')

        choice=int(input('enter choice between 1 to 6----->:'))

        if choice==1 :

            book.insertdata()

        elif choice==2:

            book.display()

        elif choice==3:

            book.searchbookrec()

        elif choice==4:

            book.deletebook()

        elif choice==5:

            book.updatebook()
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elif choice==6:

    return

else:

    print('wrong choice.....enter your choice again')

    x=input('enter any key to continue')

def menumember():

    while True:

        book.clrscrn()

        print('\t\t\t memberrecord management\n')

        print('=====')

        print('1.add member record      ')

        print('2.display member records    ')

        print('3.search member record      ')

        print('4.delete member record      ')

        print('5.update book record        ')

        print('6.return to main menu      ')

        print('=====')

        choice=int(input('enter choice between 1 to 6----->: '))

        if choice==1:

            member.insertmember()

        elif choice==2:

            member.display()

        elif choice==3:

            member.searchmember()

        elif choice==4:

            member.deletemember()

        elif choice==5:

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        print('no such function')

elif choice==6:

    return

else:

    print('wrong choice..... enter your choice again')

    x=input('enter any key to continue')

def menuissuereturn():

    while True:

        book.clrscrn()

        print('\t\t\t member record management\n')

        print('=====')

        print('1.issue book    ')

        print('2.display issued book records  ')

        print('3.return issued book  ')

        print('4.return to main menu')

        print('=====')

        choice=int(input('enter your choice between 1 to 4----->: '))

        if choice==1:

            issue.issuebook()

        elif choice==2:

            issue.showissuedbooks()

        elif choice==3:

            issue.returnbook()

        elif choice==4:

            return

    else:

        print('wrong choice ....enter your choice again')

```

```
x=input('enter any key to continue')
```

## Module 3:Book

```
import mysql.connector

from mysql.connector import errorcode

from datetime import date,datetime,timedelta

from mysql.connector import (connection)

import os

import platform

def clrscreen():

    if platform.system()=="windows":

        print(os.system("cls"))

def display():

    try:

        os.system("cls")

        cnx =

mysql.connector.connect(host="localhost",user="Thanmayi",charset='utf8',passwd="feifei*",databa

se="tanu")

        cursor=cnx.cursor()

        query=("select * from bookrecord3")

        cursor.execute(query)

    for(bno,bname,price,publ,qty,do_p,auth)in cursor:

        print("=====")

        print("bookcode          :",bno)

        print("bookname            :",bname)

        print("price              :",price)

        print("publ                :",publ)

        print("quantity          :",qty)

        print("purchased on        :",do_p)

        print("auth                :",auth)
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        print("=====")
cursor.close()

cnx.close()

print("you have done it!!!!!!")

except mysql.connector.Error as err:

    if err.errno==errorcode.ER_ACCESS_DENIED_ERROR:

        print("something is worng with your user name or passwd")

    elif err.errno==errorcode.ER_BAD_DB_ERROR:

        print("database does not exist")

    else :

        print(err)

        cnx.close()

def insertdata():

    try:

        cnx =
mysql.connector.connect(host="localhost",user="Thanmayi",charset='utf8',passwd="feifei*",databa
se="tanu")

        cursor = cnx.cursor()

        bno=int(input("enter book code  :"))

        bname=input("enter book name  :")

        price=int(input("enter book price  :"))

        publ=input("enter publisher of book  :")

        qty=int(input("enter quantity purchase  :"))

        print("enter date of purchase date,month and year seperately:")

        DD=int(input("enter date (DD):"))

        MM=int(input("enter month (MM):"))

        YY=int(input("enter year (YYYY):"))

        auth=input("enter book author's name  :")

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qry=("insert into bookrecord3 values(%s,%s,%s,%s,%s,%s,%s)")
data=(bno,bname,price,publ,qty,date(YY,MM,DD),auth)
cursor.execute(qry,data)
cnx.commit()
cursor.close()
cnx.close()
print("record insert.....")
except mysql.connector.Error as err:
    if err.errno==errorcode.ER_ACCESS_DENIED_ERROR:
        print("something is wrong with your user or passwd")
    elif err.errno==errorcode.ER_BAD_DB_ERROR:
        print("database does not exist")
    else:
        print(err)
        cnx.close()
def deletebook():
    try:
        cnx =
mysql.connector.connect(host="localhost",user="Thanmayi",charset='utf8',passwd="feifei*",databa
se="tanu")
        cursor=cnx.cursor()
bno=input("enter book code of book to be deleted from the tanu :")
        qry=("delete from bookrecord3 where bookcode =%s;")
        del_rec=(bno,)
        cursor.execute(qry,del_rec)
        cnx.commit()
        cursor.close()
        cnx.close()

```



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        print(cursor.rowcount,"record(s)deleted successfully.....")

except mysql.connector.Error as err:

    if err.errno==errorcode.ER_ACCESS_DENIED_ERROR:

        print("something is wrong with your use name or passwd")

    elif err.errno==errorcode.ER_BAD_DB_ERROR:

        print("database does not exist")

    else:

        print(err)

        cnx.close()

def searchbookrec():

    try:

cnx =
mysql.connector.connect(host="localhost",user="Thanmayi",charset='utf8',passwd="feifei*",databa
se="tanu")

        cursor=cnx.cursor()

        bno=input("enter book code to be searched from tanu  :")

        query=("select * from bookrecord3 where bookcode= %s")

        rec_srch=(bno,)

        cursor.execute(query,rec_srch)

        rec_count=0

    for(bno,bname,price,publ,qty,do_p,auth)in cursor:

        rec_count+=1

        print("=====")

        print("bookcode      :",bno)

        print("bookname       :",bname)

        print("price of book    :",price)

        print("publish         :",publ)

        print("total quantity in hand  :",qty)

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        print("purchased on      ;",do_p)

        print("author of book   :",auth)

        print("=====")

        if rec_count%2==0:

            input("press any key to continue")

            clrscreen()

        print(rec_count,"record(s) found")

        cnx.commit()

        cursor.close()

        cnx.close()

except mysql.connector.Error as err:

    if err.errno==errorcode.ER_ACCESS_DENIED_ERROR:

        print("something is wrong with your name or passwd")

    elif err.errno==errorcode.ER_BAD_DB_ERROR:

        print("database does not exist")

    else:

        print(err)

        cnx.close()

def updatebook():

    try:

        cnx =

mysql.connector.connect(host="localhost",user="Thanmayi",charset='utf8',passwd="feifei*",databa
se="tanu")

        cursor=cnx.cursor()

        bno=int(input("enter book code of be updated from tanu:"))

        query=("select*from bookrecord3 where bno=%s")

        rec_srch=(bno,)

        print("enter new data")

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bname=input("enter book name  :")
price=int(input("enter book price  :"))
publ=input("enter publisher of book  :")
qty=int(input("enter quantity purchased  :"))
print("enter date of purchased(date/month and year separtely:")
DD=int(input("enter date (DD)  :"))
MM=int(input("enter month (MM)  :"))
YY=int(input("enter year (YYYY)  :"))
auth=input("enter book authors name      :")
qry=("update bookrecord3 set bookname=%s,\
    "price=%s,publ=%s,qty=%s,do_p=%s,auth=%s"\
    "where bookcode=%s")
data=(bname,price,publ,qty,date(YY,MM,DD),auth,bno)
cursor.execute(qry,data)
cnx.commit()
cursor.close()
cnx.close()

print(cursor.rowcount,"record(s)updated successfully.....")
except mysql.connector.Error as err:

    if err.errno==errorcode.ER_ACCESS_DENIED_ERROR:

        print("something is wrong with your user name and passwd")

    elif err.errno==errorcode.ER_BAD_DB_ERROR:

        print("data does not exist")

    else:

        print(err)

    cnx.close()

```

## Module 4:Member

```
import mysql.connector

from mysql.connector import errorcode

from datetime import date, datetime, timedelta

from mysql.connector import (connection)

import os

def clrscreen():

    print('\n' * 5)

def display():

    try:

        os.system('cls')

        cnx =

mysql.connector.connect(host="localhost",user="Thanmayi",charset='utf8',passwd="feifei*",databa
se="tanu")

        cursor=cnx.cursor()

        query = ("SELECT * FROM member1")

        cursor.execute(query)

        for (mno,mname,mob,dop,adr) in cursor:

            print('=====')

            print("MemberCode      : ",mno)

            print("MemberName      : ",mname)

            print("Mobile_No      : ",mob)

            print("Date of Membership      : ",dop)

            print("Address      : ",adr)

            print("=====")

        cursor.close()

        cnx.close()

        print("You have done it!!!!!!")
```

```

except mysql.connector.Error as err:

    if err.errno == errorcode.ER_ACCESS_DENIED_ERROR:

        print("Something is wrong with your user name or password")

    elif err.errno == errorcode.ER_BAD_DB_ERROR:

        print("Database does not exist")

    else :

        print(err)

        cnx.close()

def insertmember():

    try:

        cnx =
mysql.connector.connect(host="localhost",user="Thanmayi",charset='utf8',passwd="feifei*",databa
se="tanu")

        cursor = cnx.cursor()

        mno=input("Enter Member Code   : ")

        mname=input("Enter Member Name   : ")

        mob=input("Enter Member Mobile No.   : ")

        print("Enter Date of Membership Date,month and Year seperately: ")

        DD=int(input("Enter Date  (DD) : "))

        MM=int(input("Enter Month  (MM): "))

        YY=int(input("Enter Year  (YYYY) : "))

        addr=input("Enter Member Adress   : ")

        qry = ("INSERT INTO member1 "\

            "VALUES (%s, %s, %s, %s, %s)")

        data = (mno,mname,mob,date(YY,MM,DD),addr)

        cursor.execute(qry,data)

        cnx.commit()

        cursor.close()

```

```

cnx.close()

print("Record Inserted.....")

except mysql.connector.Error as err:

    if err.errno == errorcode.ER_ACCESS_DENIED_ERROR:

        print("Something is wrong with your user name or passwd")

    elif err.errno == errorcode.ER_BAD_DB_ERROR:

        print("Database does not exist")

    else :

        print(err)

        cnx.close()

def deletemember():

    try:

        cnx =
mysql.connector.connect(host="localhost",user="Thanmayi",charset='utf8',passwd="feifei*",databa
se="tanu")

        cursor=cnx.cursor()

        mno=input('enter member code to be deleted from the tanu : ')

        qry=('delete from member1 where membercode=%s')

        del_rec=(mno,)

        cursor.execute(qry,del_rec)

        cnx.commit()

        cursor.close()

        cnx.close()

        print(cursor.rowcount,'record(s)deleted Successfully.....')

    except mysql.connector.Error as err:

        if err.errno == errorcode.ER_ACCESS_DENIED_ERROR:

            print('Something is wrong with your user name or password')

        elif err.errno == errorcode.ER_BAD_DB_ERROR:

```

```

        print('Database does not exist')

    else:

        print(err)

        cnx.close()

def searchmember():

    try:

        cnx =
mysql.connector.connect(host="localhost",user="Thanmayi",charset='utf8',passwd="feifei*",databa
se="tanu")

        cursor = cnx.cursor()

        mnm=input('Enter member Name to be Searched from tanu    : ')

        query = ('SELECT * FROM member1 where membername=%s ')

        rec_srch=(mnm,)

        cursor.execute(query,rec_srch)

        Rec_count=0

    for (mno,mname,mob,dop,adr) in cursor:

        print("=====")

        print("Member Code          : ",mno)

        print("Member Name            : ",mname)

        print("Mobile No.of Member        : ",mob)

        print("Date of Membership          : ",dop)

        print("Address                      : ",adr)

        print("=====")

    if Rec_count%2==0:

        input("Press any key to continue")

        clrscreen()

        print(Rec_count, "Record(s) found")

        cnx.commit()

```

```
        cursor.close()

    cnx.close()

except mysql.connector.Error as err:

    if err.errno == errorcode.ER_ACCESS_DENIED_ERROR:

        print("Something is wrong with your user name or password")

    elif err.errno == errorcode.ER_BAD_DB_ERROR:

        print("Database does not exist")

    else :

        print(err)

    cnx.close()
```



## Module 5: Issue

```
import mysql.connector

from mysql.connector import errorcode

from datetime import date

#from mysql.connector import (connection)

import os

def clrscreen():

    print('\n'*5)

def issuebook():

    try:

        cnx =

mysql.connector.connect(host="localhost",user="Thanmayi",charset='utf8',passwd="feifei*",databa
se="tanu")

        cursor=cnx.cursor()

        print('inside')

        bno=input('enter book code to issue :')

        mno=input('enter member code :')

        print('enter date of issue ,date, month,year seperately')

        DD=int(input('enter date (DD):'))

        MM=int(input('enter month (MM):'))

        YY=int(input('enter year(YYYY):'))

        qry=('insert into issue (bno,mno,doi)\

            'values(%s,%s,%s)')

        data=(bno,mno,date(YY,MM,DD))

        cursor.execute(qry,data)

        cnx.commit()

        cursor.close()

        cnx.close()
```

```

        print('record inserted.....')
except mysql.connector.Error as err:
    if err.errno==errorcode.ER_ACCESS_DENIED_ERROR:
        print('something is wrong with your user or passwd ')
    elif err.errno==errorcode.ER_BAD_DB_ERROR:
        print('database does not exist')
    else :
        print(err)
        cnx.close()

def showissuedbooks():
    try:
        os.system('cls')

        cnx =
mysql.connector.connect(host="localhost",user="Thanmayi",charset='utf8',passwd="feifei*",databa
se="tanu")

        cursor=cnx.cursor()

        query = ('select * from issue')

        query=('select bno,bname,mno,mname,doi,dor from bookrecord3,issue\'
            ',member1 where bno=bno and mno= mno')

        cursor.execute(query)

    for(bno,bname,mno,mname,doi,dor)in cursor:

        print('=====')

        print('bookcode      :',bno)

        print('bookname       :',bname)

        print('membercode     :',mno)

        print('membername      :',mname)

        print('date of issue    :',doi)

        print('date if returned  :',dor)

```

```

        print('=====')

        cursor.close()

        cnx.close()

        print('you have done it !!!!')

except mysql.connector.Error as err:

    if err.errno==errorcode.ER_ACCESS_DENIED_ERROR:

        print('something is wrong withyour user or passwd')

    elif err.errno==errorcode.ER_BAD_DB_ERROR:

        print('database does not exist')

    else :

        print(err)

        cnx.close()

def returnbook():

    try:

        cnx =
mysql.connector.connect(host="localhost",user="Thanmayi",charset='utf8',passwd="feifei*",databa
se="tanu")

        cursor =cnx.cursor()

        bno=input('enter book code of a book to be returned :')

        mno=input('enter member code of member who is returning the book :')

        retDate=date.today()

        qry=("update issue set dor=%s where bno=%s and mno=%s")

        rec=(retDate,bno,mno)

        cursor.execute(qry,rec)

        cnx.commit()

        cursor.close()

        cnx.close()

        print(cursor.rowcount,'record(s) delete successfully.....')

```

```
except mysql.connector.Error as err:

    if err.errno==errorcode.ER_ACCESS_DENIED_ERROR:

        print('something is wrong with your user or passwd')

    elif err.errno==errorcode.ER_BAD_DB_ERROR:

        print('database does not exist')

    else:

        print(err)

    cnx.close()
```

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