# Library Management System

# 1.a Setting up the connection between database and its creation

import sqlite3

def connect():

conn=sqlite3.connect("books.db")

cur=conn.cursor()

cur.execute("CREATE TABLE IF NOT EXISTS book(id INTEGER PRIMARY KEY, title TEXT,author TEXT, year INTEGER, isbn INTEGER)")

conn.commit()

conn.close()

#1.b defining the attributes of a database and inserting values.

def insert(title,author,year,isbn):

conn=sqlite3.connect("books.db")

cur=conn.cursor()

cur.execute("INSERT INTO book VALUES(NULL,?,?,?,?)",(title,author,year,isbn))

conn.commit()

conn.close()

#1.c Obtaining the output of the stored result in the database

def view():

conn=sqlite3.connect("books.db")

cur=conn.cursor()

cur.execute("SELECT \* FROM book")

rows=cur.fetchall()

conn.close()

return rows

# 1.d Defining some of the attributes to store particular attribute

def search(title="",author="",year="",isbn=""):

conn=sqlite3.connect("books.db")

cur=conn.cursor()

cur.execute("SELECT \* FROM book where title=? or author=? or year=? or isbn=?",(title,author,year,isbn))

rows=cur.fetchall()

conn.close()

return rows

#1.e This function helps to delete a particular value in the database

def delete(id):

conn=sqlite3.connect("books.db")

cur=conn.cursor()

cur.execute("DELETE FROM book where id=?",(id,))

conn.commit()

conn.close()

#1.f This functionality is built to update attributes value in the database

def update(id,title,author,year,isbn):

conn=sqlite3.connect("books.db")

cur=conn.cursor()

cur.execute("UPDATE book SET title=?, author=?, year=?,isbn=? WHERE id=?",(title,author,year,isbn,id))

conn.commit()

conn.close()

connect()

# This part helps to call particular function

insert("The Bible ","John snow",1918,912345311)

#print(delete(3))

#update(4,"The moon","John smile",1917,909099)

print(view())

#print(search(author="John smile"))