## Solution

Part 1: To create the required database and add data programmatically by using the Insert query

|  |
| --- |
| import sqlite3  db=sqlite3.connect("m5assignment.db")  cur=db.cursor()  cur.execute('''CREATE TABLE books (  BookID INTEGER PRIMARY KEY AUTOINCREMENT,  title TEXT (50) NOT NULL,  author TET(20),  price REAL);''')  for x in range(5):    ttl=input("enter book's title: ")  aut=input("enter name of author: ")  pr=float(input("enter price: "))  sql="INSERT INTO books (title, author, price) VALUES ('"+ttl+"','"+aut+"','"+str(pr)+"');"  try:  cur=db.cursor()  cur.execute(sql)  db.commit()  print ("one record added successfully")  except:  print ("error in operation")  db.rollback()  db.close() |

Part 2: To enter the title and number of copies and see the total cost

|  |
| --- |
| import sqlite3  db=sqlite3.connect("m5assignment.db")  cur=db.cursor()  total=0  while True:    ttl=input("enter book's title: ")  sql="SELECT \* FROM books WHERE title='"+ttl+"'"  cur=db.cursor()  cur.execute(sql)  rec=cur.fetchone()  if rec!=None:  print (rec)  pr=rec[3]  qty=int(input("enter number of books purchased"))  cost=pr\*qty  total=total+cost  else:  print ("Title Not Found")  choice=input("add more books[Y/N]?")  if choice=='N': break  print ("Total cost of Purchased Books",total)  db.close() |

Sample data in the database:

|  |  |  |  |
| --- | --- | --- | --- |
| BookID | Title | Author | Price |
| 1 | Learn Python 3 The Hard Way | Zed A.Shaw | 575 |
| 2 | Think Python | Allen B. Drowney | 475 |
| 3 | Data structures and algorithms in Python | Goodritch | 470 |
| 4 | Python Programming:A modular Approach | Taneja & Kumar | 450 |
| 5 | Python Machine Learning By Example | Liu & Yuxi | 725 |
| 6 | Core Python Programming | R.Nageshwar Rao | 599 |