

Introduction

In this assignment, you are required to apply your knowledge of connecting a SQLite database to a Python program. Read the scenario below and then respond to the problem statement described.

Scenario

In a bookstore, somewhere in India.

Pi: Hi, do you have Think Python?

Store Assistant: Let me check, Sir.

(The assistant checks on his computer. This is what his screen looks like.)

```
Book Title: Think Python
2, 'Think Python', 'Allen B. Drowney', 475.0

No. of copies:
```

Store Assistant: Yes Sir, we have it in stock. It costs Rs. 475. Would you like to take it?

Pi: Yes please. And give me two copies.

Store Assistant: Sure. Anything else, Sir?

Pi: Nope thanks. What's the total?

(The assistant now enters the number of copies on his computer. This is what his screen looks like.)

```
Book Title: Think Python
2, 'Think Python', 'Allen B. Drowney', 475.0

No. of copies: 2
Add more books? Y/N N

Total Cost 950.0
```

Problem Statement

Assume that you have to create such an application for maintaining a database of book titles and their costs.

Part 1: Write the script to create the required database and add data programmatically by using the Insert query.

Part 2: Write a Python script connecting to the database created that has the following features:

- A books table having the title, author, and price as fields.
- Accept input from the user for the title and quantity purchased by the customer.
- Fetch the price from the table by executing the Select query.
- Calculate the total amount and display it.

Assignment Submission

Your submission should have fully functional code with:

1. One script file containing the code for create the required database and add data programmatically by using the Insert query.
2. One script file with the main code which takes the book title (of a book you have already entered into the database) and number of copies as input and displays the output.
3. One database file containing data for the book id, title, author and price.

Learning outcomes being evaluated

- Create a SQLite database by executing the INSERT query.
- Execute SQL Queries through Python.