Introduction

In this assignment, you are required to apply your knowledge of using PyQt to develop a GUI for a Python application. Read the scenario below and then respond to the problem statement described.
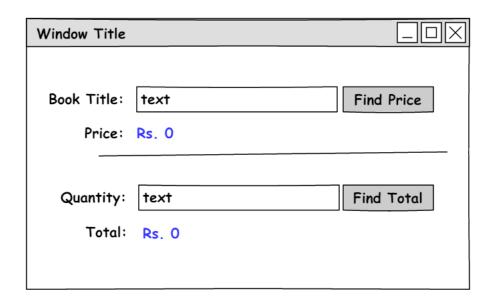
Scenario

In the module 5 assignment, you developed a Python application to retrieve a book title and its cost from a SQLite database which contained a books table having the title, author, and price as fields. However, that application did not have a GUI.

Problem Statement

Assume that you have to create a GUI-based form for the same books table that you created in the module 5 assignment. The form should have the following features:

1. It should have the basic functionality and widgets displayed in the mock-up below:

2. It should fetch the price of the book when the 'find price' button is clicked.
3. The quantity field should only accept integer data.
4. When the 'find total amount' button is clicked, the field should display the total amount by calculating the product of the price and quantity.
5. If the book title enter is not present in the database, a message saying the book is not fond should be displayed.

Assignment Submission

Your submission should have fully functional code with:

1. One script file containing the code for the application including the Python code generated from Qt Designer.
2. One .ui file containing the form created in Qt Designer.
3. One database file containing data for the book id, title, author and price.

Learning outcomes being evaluated

- Create a simple GUI using Qt Designer.
- Use layouts and spacers.
- Use common widgets available in PyQT.
- Save the UI and build Python code from the UI file.
- Add relevant event handlers to the Python code.