**Assignment # 2: Structures and Classes**

**Question 1: Struct for Student Records**

Define a structure called **Student** that represents student records. Each student should have the following attributes:

* Student ID (integer)
* Name (string)
* Age (integer)
* Grade (float)

Create functions to:

* Input student details.
* Display student details.
* Calculate and display the average grade of all students.
* Search for a student by ID and display their details.

**Question 2: Class for Bank Account**

Create a class called **BankAccount** to represent a simple bank account. Include the following attributes:

* Account number (integer)
* Account holder name (string)
* Balance (float)

Implement member functions to:

* Deposit money into the account.
* Withdraw money from the account.
* Display account details.

**Question 3: Struct for Book Details**

Define a structure called **Book** to represent book details. Each book should have the following attributes:

* Book ID (integer)
* Title (string)
* Author (string)
* Price (float)

Write functions to:

* Input book details.
* Display book details.
* Search for a book by title and display its details.

**Question 4: Class for Rectangle**

Create a class called **Rectangle** to represent rectangles. Include the following attributes and member functions:

* Length (float)
* Width (float)
* Calculate and display the area of the rectangle.
* Calculate and display the perimeter of the rectangle.