Exercise 5

Phase 4. Final version with a remote connection

4.1. On the server side

Step 1

In this phase we will develop a final version of the functions implementing the business logic and data access.

In the database of this example add a view BooksWithDescriptions.

```
SELECT Authors, Description, Title, ISBN
FROM dbo.Titles
```

In the project eLibraryServer, class DAL add a function getBookByISBN:

```
public DataTable getBookByISBN(String pStrISBN)
        DataTable dt=new DataTable();
        SqlConnection connection=new SqlConnection();
        SqlCommand cmd=new SqlCommand();
        connection.ConnectionString =
eLibraryServer.Properties.Settings.Default.biblioConnectionString;
     try
     {
          using (connection)
            connection.Open();
            cmd.Connection = connection;
        cmd.CommandText = "Select * from BooksWithDescriptions where ISBN='" + pStrISBN + "'";
            dt.Load(cmd.ExecuteReader());
      }
     catch(SqlException e){ connection.Close();}
     return dt;
 }
```

4.2. On the client side

Step 1

- -Add a new form, Windows Form type frmSelectedBook, for displaying data for the selected book.
- Insert a button [OK] to close the form;
- Add four labels.

```
    IbIISBN text="ISBN"
    IbITitle text="Title"
    IblAuthors text="Authors"
    IbIDescription text="Description"
```

- Add four textboxes that will display corresponding attribute of the selected book:
 - txtISBN (size 9)
 - txtTitile (size 9, multiline, bold)

- txtAuthors (size 9)
- txtDescription (size 9, multiline)
- Add a public variable SelectedISDN.

public string SelectedISBN

- in the function of the event *load*, add the following code for reading the SelectedISBN and assign the value from the text box txtISBN.

Step 2

In the form frmBooks,

- add a function to **DataGridView1** event **RowHeaderMouseDoubleClick**, which will open a new dialog form **frmSelectedBook**.

Run the program and see the result. The new form looks as follows:

