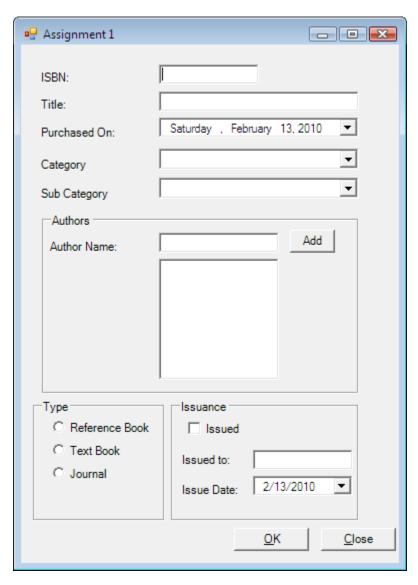# Habib University

CSE355 – Database Systems (Fall' 2017)
Lab # 1 – GUI development in C#

Q - You need to develop a windows form in C#.NET that implements the following functionality:

- The Category drop down will contain the following list:
  o Database Systems
  o Programming
  o Artificial Intelligence

- Upon selection of a category, the corresponding sub categories will be populated in sub category combo box. Following are subcategories for each category:

Habib University

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- o Database Systems
    - ERD
    - SQL
    - OLAP
    - Datamining
  - o Programming
    - C#
    - Java
    - Web Programming

  - o Artificial Intelligence
    - Machine Learning
    - Robotics
    - Computer Vision

- A book can have multiple authors. Author can be added by entering an author name in the textbox and pressing Add button. This will add the author name in 'Authors' listbox.
- A book can be of any of the following types:
    - o Text Book
    - o Reference Book
    - o Journal
- If Issuance check box is ON, that implies that the book is issued to someone. Turning ON/OFF the issuance checkbox will enable/disable 'Issued to' and 'Issue date' fields.
- Upon pressing OK button, the form will check the following rules:
    - o ISBN can be a 12 digit alphanumeric field
    - o 'Purchased on' date must be less than today's date
    - o If Book is of type 'Journal' then it'll have no author else it must have at least one author.
    - o If book is issued to someone then 'Issued to' must not be empty and 'Issue date' must be greater than 'Purchased On' and less than today's date.
- Application will be closed on pressing Cancel button.