## Assignment #5

In this assignment your employer is tasking you with the design of a simple interface to their Megacities Population database. The goal is to create a GUI to edit the contents of the database, both the Countries and Cities tables.

The interface should start with the following screen:

🖳 Main			x
Edit Countries	There are 10 countries in the Database		
Edit Cities	There are 20 Cities in the Database		

Clicking on 'Edit Countries' should bring up another form to allow for the editing Countries:

Country Editor				
				Save Countries
	country	pop2005	monetaryUnit	A
•	Bangladesh	141.8	taka 1	E
	Brazil	186.4	real	-
	China	1316.8	yuan	
	India	1103.4	rupee	
	Indonesia	222.8	rupiah	

Clicking on 'Edit Cities' should bring up another form to allow for the editing Cities:

🖳 Citi	ies Editor			
India	3	•		Save Cities
	city	pop2005	pop2015	
•	Bombay	18.2	22.6	
	Calcutta	14.3	16.8	
	Delhi	15.1	20.9	

Requirements for 'Main' form:

- 1) It should display the number of countries and cities, calculated from the database and not hard-coded.
- 2) Clicking on either button should bring up a new form for either the country or cities, depending on which button was clicked.

Requirements for 'Countries Editor' form:

- 1) When the form is loaded, all country information should be loaded into a DataGridView.
- 2) The user should be able to edit and delete countries, *but not add* countries to the list.
- 3) Any changes which are made to the data are saved when the user clicks on the 'Save Countries' button.

## Requirements for 'Cities Editor' form:

1) When the form is loaded, all countries should be loaded into a drop-down-list, as below. A single country should show up in the list only once.

🖳 Cities Editor		
India Bangladesh		Save Cities
Brazil China	pop2015	
India Indonesia	22.6	
Japan	16.8	
Mexico Nigeria	20.9	
Russia USA		

- 2) When the user selects a country from the drop-down list, the corresponding cities should be loaded into a DataGridView for editing.
- 3) The user should be able to edit and delete cities, *but not add* new cities to the list.
- 4) Any changes which are made to the data are saved when the user clicks on the 'Save Cities' button.

Marking Criteria:

- Use of the top-down design and structured programming: 10%
- Correct functionality: 50 %
- In-code documentation: 20%
- Pseudo-code: 20%