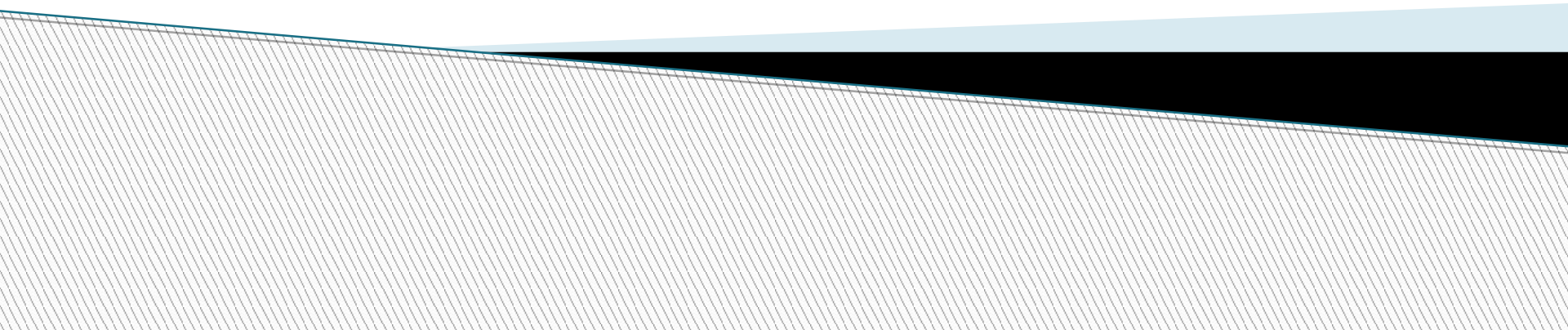


DBMSS-lab2

PHD Pop Dănuț
Informatics



Introduction

- ▶ Master–detail windows form
- ▶ Configuration file
- ▶ Exercise
- ▶ Lab2

Master-detail windows form

- ▶ Creating and configuring the dataset that contains at least one table. This includes creating a relationship between the tables

Master-detail windows form

Form1

1 of 6

	Id_teacher	Name
▶	1	Maria
	2	Ion
	3	Vasile
	4	Camelia
	5	ana

← Parent
Children ↓

id student: 10

First Name: Gigel

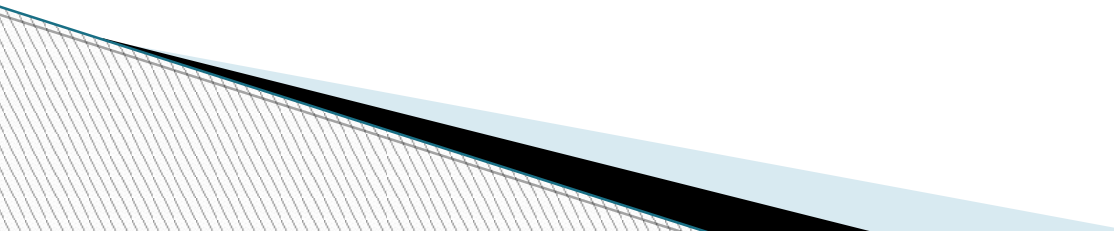
Last Name: Costel

Teacher Id: 1

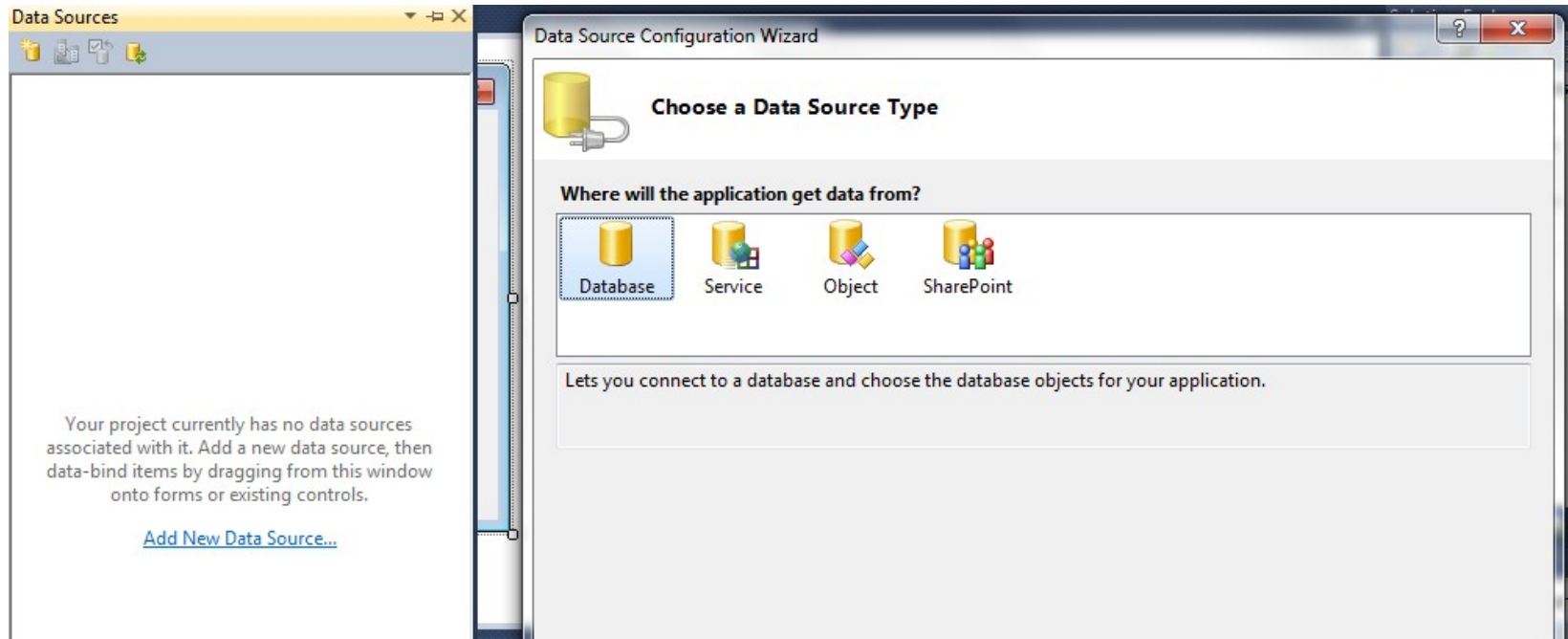
	id_student	FirstName	LastName	TeacherId
▶	10	Gigel	Costel	1
	11	Marcel	Florin	1
*				

Master-detail windows form

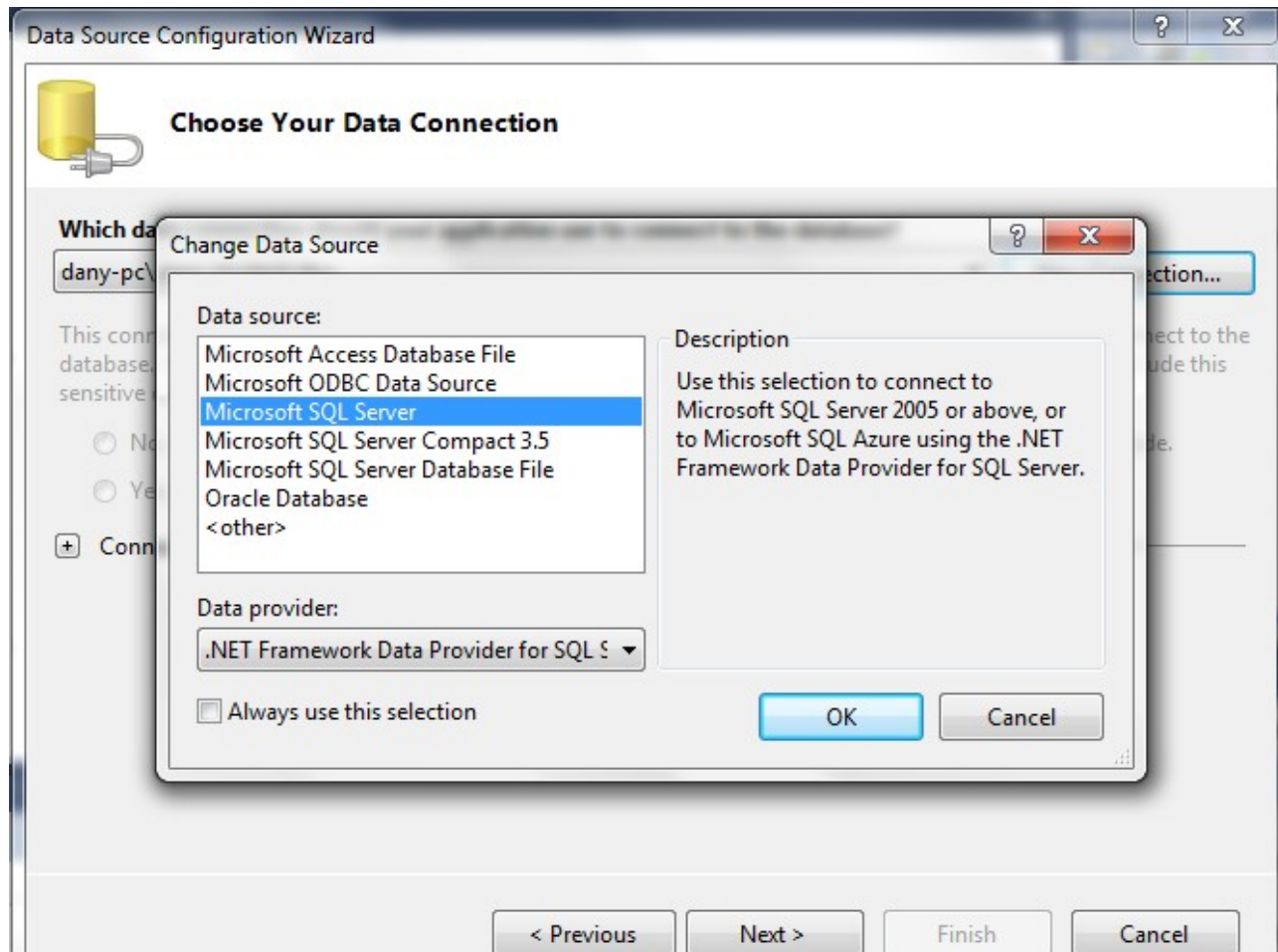
► Steps

- 1) Add Data Source
 - 2) Add DataBase
 - 3) Select Tables which you want for a binding
 - 4) Select types of controls
 - 5) Drag and drop the tables
 - 6) Read the properties and adapt them
- 

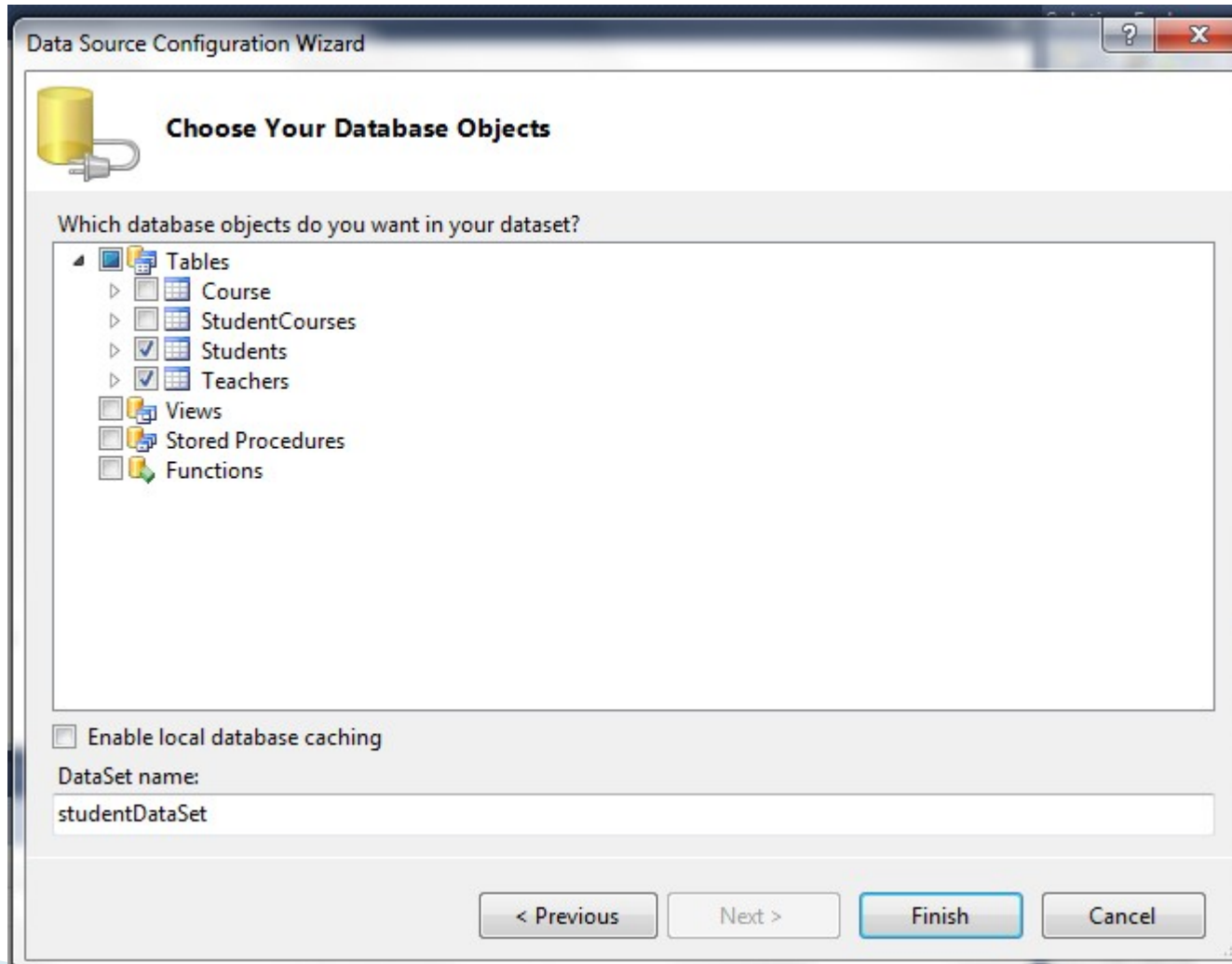
Master-detail windows form



Master-detail windows form



Master-detail windows form



The screenshot shows a Windows-style dialog box titled "Data Source Configuration Wizard". It features a yellow database cylinder icon with a plug. The main heading is "Choose Your Database Objects". Below this, a question asks "Which database objects do you want in your dataset?". A tree view shows categories: "Tables" (expanded), "Views", "Stored Procedures", and "Functions". Under "Tables", "Course", "StudentCourses", "Students", and "Teachers" are listed with checkboxes; "Students" and "Teachers" are checked. Below the tree, there is an unchecked checkbox for "Enable local database caching". A text field labeled "DataSet name:" contains the text "studentDataSet". At the bottom, there are four buttons: "< Previous", "Next >", "Finish" (highlighted with a blue border), and "Cancel".

Data Source Configuration Wizard

Choose Your Database Objects

Which database objects do you want in your dataset?

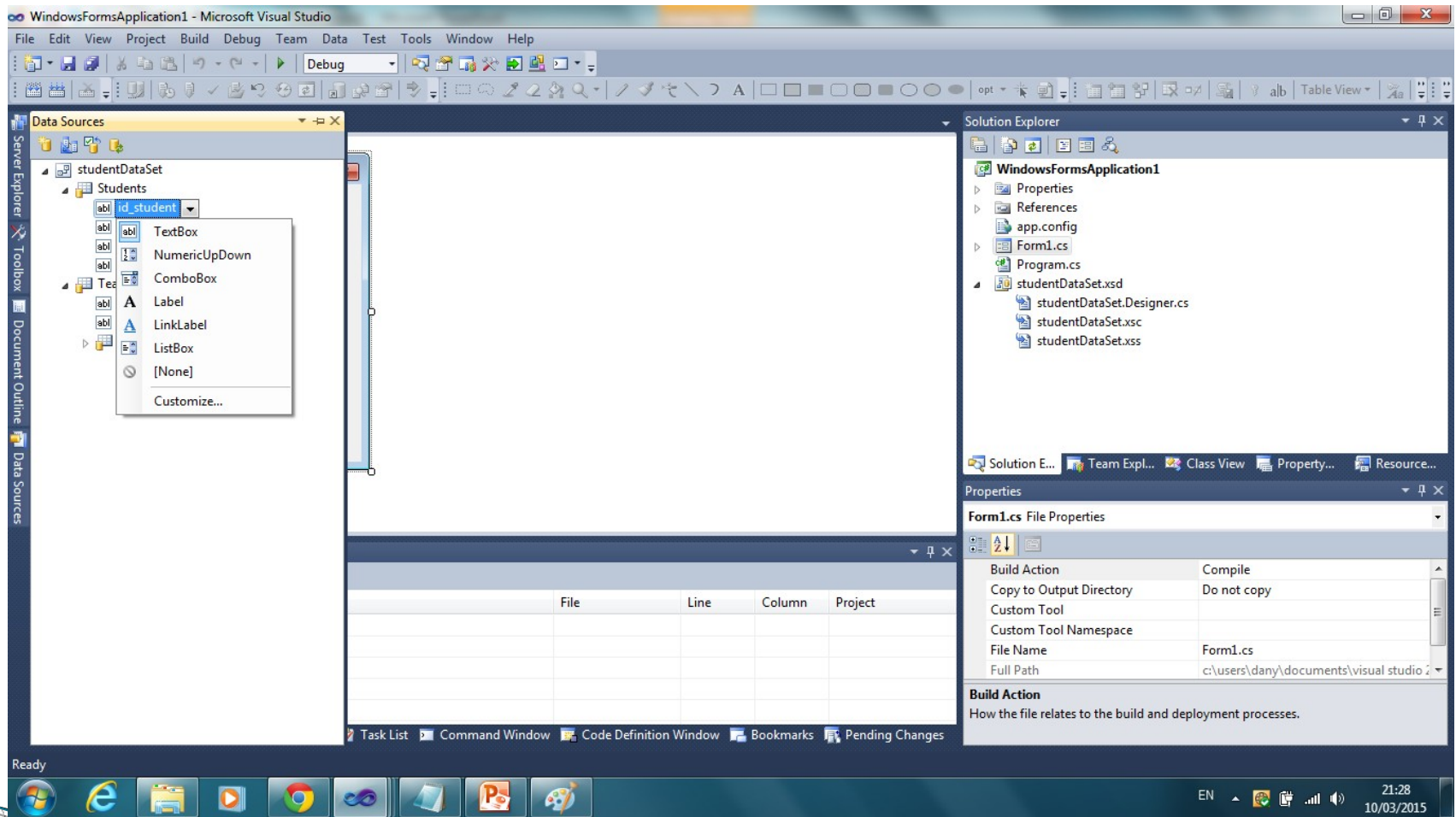
- Tables
 - ☐ Course
 - ☐ StudentCourses
 - ☒ Students
 - ☒ Teachers
- ☐ Views
- ☐ Stored Procedures
- ☐ Functions

☐ Enable local database caching

DataSet name:
studentDataSet

< Previous Next > **Finish** Cancel

Master-detail windows form



Master-detail windows form

Form1

1 of 6

	Id_teacher	Name
▶	1	Maria
	2	Ion
	3	Vasile
	4	Camelia
	5	ana

id student: 10

First Name: Gigel

Last Name: Costel

Teacher Id: 1

	id_student	FirstName	LastName	TeacherId
▶	10	Gigel	Costel	1
	11	Marcel	Florin	1
*				

Configuration File

- ▶ This is helpful when you must define data that is associated with an application
- ▶ You can store application settings in the configuration file that is associated with the application. Configuration files are saved in XML format

Configuration File

- ▶ Step

1) In Solution Explorer, right-click the project name, click **Add**, and then click **New Item**.

2) In the **Add New Item** list, click to select **XML File**.

3) In the **Name** text box, type **App.config**, and then click **Add**.

Configuration File

Ex

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
<appSettings>
  <add key="text" value="Hello Word" />
  <add key="int" value="1" />
  <add key="path" value="c:\\file.txt" />
</appSettings>
</configuration>
```

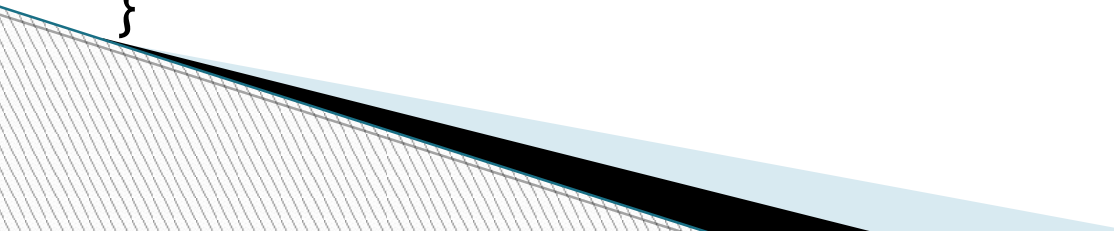
variable
name

value/path/
Connectionstring...etc

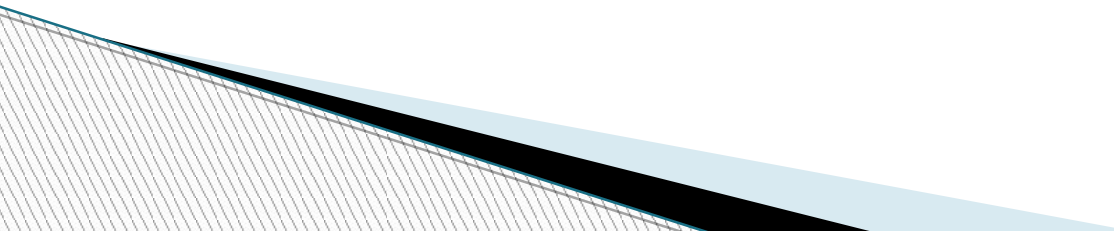
Configuration File

Ex C#

```
static void Main(string[] args)
{
    string s;
    // Read a particular key from the config file
    s = ConfigurationManager.AppSettings.Get("int");
    textBox1.Text="The value of int: " + s;
    textBox1.Text =
    ConfigurationManager.AppSettings["text"];
}
```



Exercise

- ▶ Connect a database using a config file, a master detail forms and displays the values
 - ▶ 1) An average > 5
 - ▶ 2) A join query
 - ▶ 3) Parents and children for two tables relation 1:M
 - ▶ All queries will be made in config file
- 

Lab 2 assigned in week 2, due in week 7

- ▶ <http://www.cs.ubbcluj.ro/~tzutzu/Didactic/TrasactionsDistributedDBEn.htm>

