

Introduction to Programming II

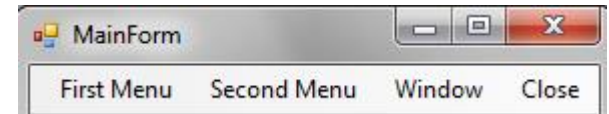
Lecture 3 – Menus

Semester II

MenuStrip control

- Organize the main menus and their submenus

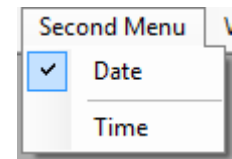
- mnuName
- mnuNameSubname



- Naming using Capital letter
- Unique access Key using & before the letter
File = Alt+F
- Use shortcut keys property for important actions –
Ctl\Shift\Alt+Key – will call the event of this menu
instantly

Cont'

- Double click on the menu will open the event code function for you to program the action
- Use the right_mouse_click -> insert -> separator to distinguish groups within the menu
- Every menu can be signed by 'v' using the checked property = True\False



Cont'

- To choose the place of the window use:

StartPosition property = CenterScreen\...

Or

StartPosition = Manual and configure the Location property using its X and Y components

- When many forms are available you can choose the one that will start the project using the file
Program.cs → `Application.Run(new MainForm());`

Opening a form

- To open several forms from the same class use:

```
Form frm = new MyForm();  
frm.Show();
```

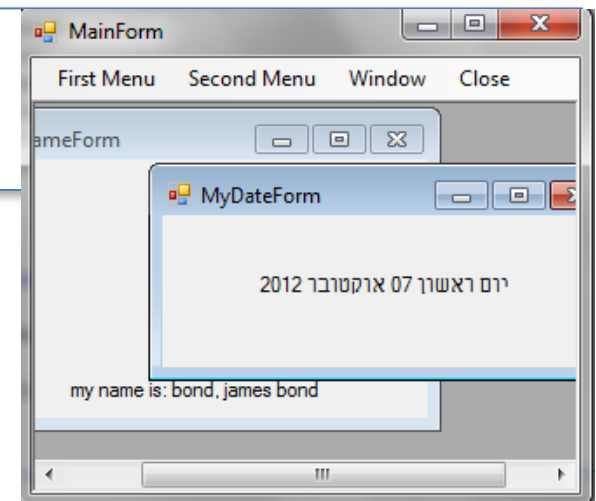
- To open a unique form from a class so we can't get to the parent form without closing this one!

```
Form frm = new MyForm();  
frm.ShowDialog();
```

MDI – Multiple Document Interface

- One document, which we call the parent document, can hold in few other documents, the child documents.
- The child document can not be moved outside the parent document
 - Parent document: IsMdiContainer=true
 - Child document: MdiParent = this (the parent document)

```
Form frm = new MyForm();  
frm.MdiParent = this;  
frm.Show();
```



MDI cont'

- Manual start position for child is relative to the parent
- The parent document can arrange the children document in Horizontal\Vertical\Cascade layout

```
this.LayoutMdi (MdiLayout.TileVertical)
```

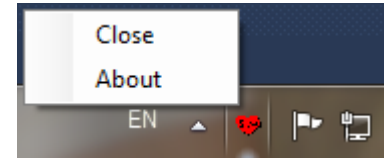
Extras

- To close a form use:

`This.Close();`

- To get the date as string use:
 - `DateTime.Now.ToLongDateString()`
- To get the time as string use :
 - `DateTime.Now.ToShortTimeString()`
- To get any date component use:
 - `DateTime.Now.Hour.ToString()`
 - `DateTime.Now.Day.ToString()`

Extras cont'



- NotifyIcon – by selecting an icon (a file extension .ico, can be created in the IDE), this icon will be shown near the clock at the bottom in the Notifications Area
- Change the icon of the exe by the property of the project -> application -> icon
- The floating menu that appears with the right_click_mouse is the ContextMenuStrip object. We have to bind it to another component by the ContextMenuStrip property of other component, like the NotifyIcon for example

Exercise

- Read the exercise in the directory solutions\ex
Menus

