

Faculty of Computers, Informatics and Microelectronics
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Event-Driven Programming
Laboratory work #2

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Laboratory work #2

1 Purpose of the laboratory

Gain knowledge about basics of Advanced Form Elements, Child Windows, Basics of Working With Keyboard.

2 Laboratory Work Requirements

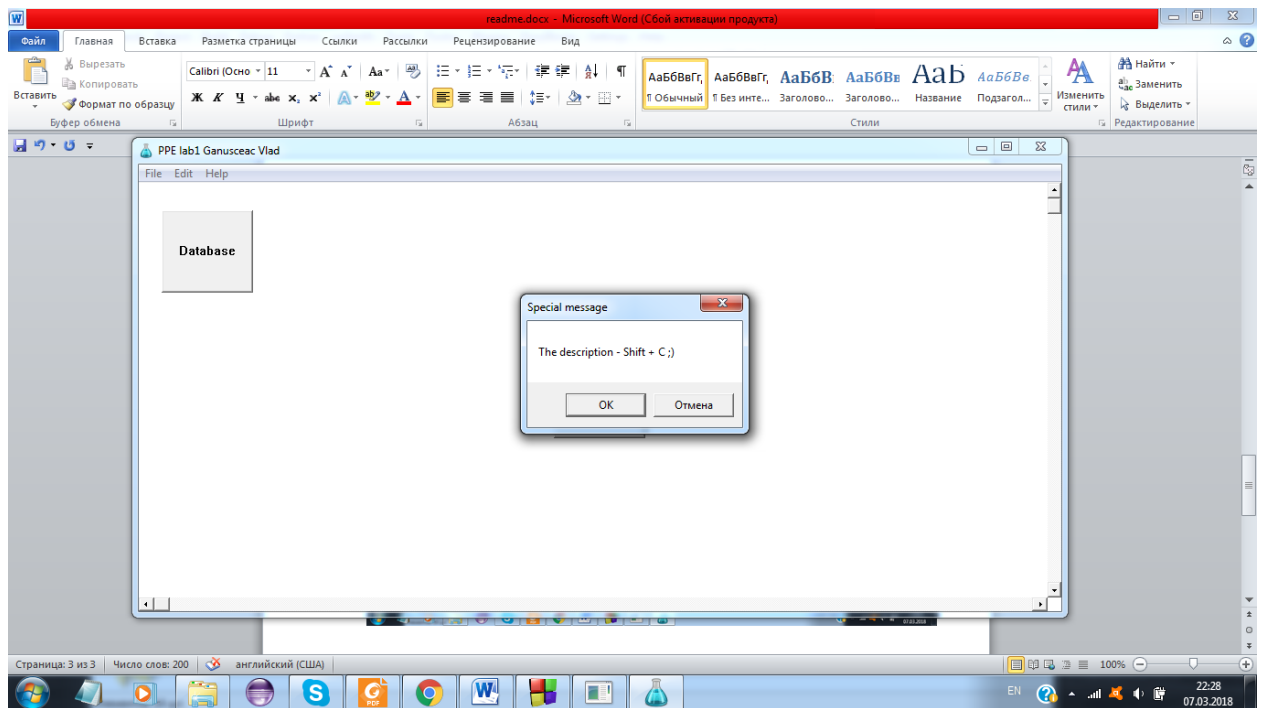
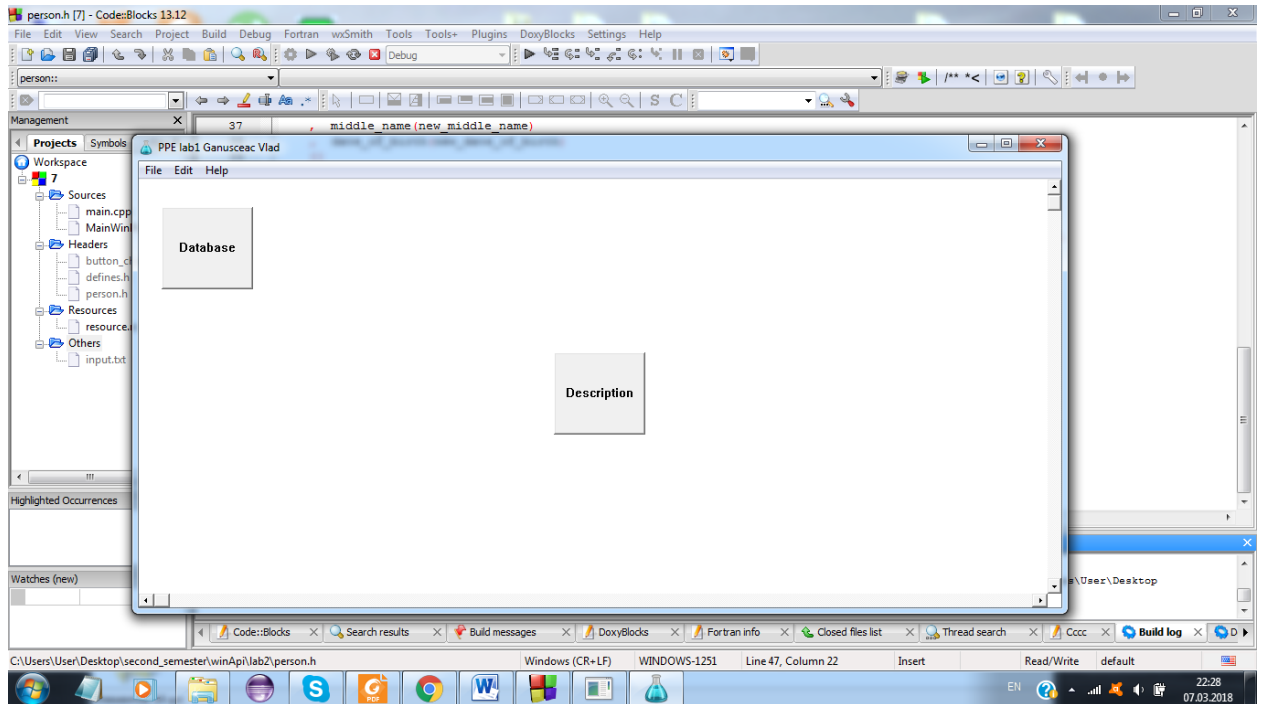
Mandatory Objectives:

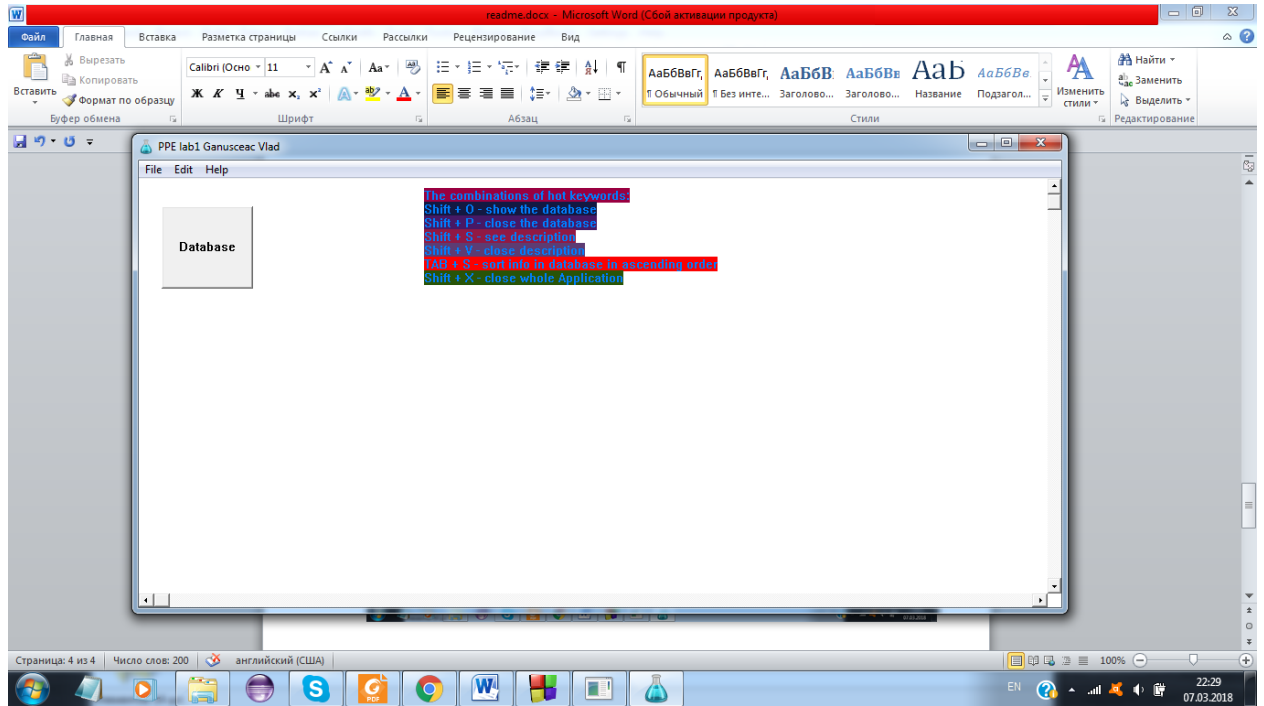
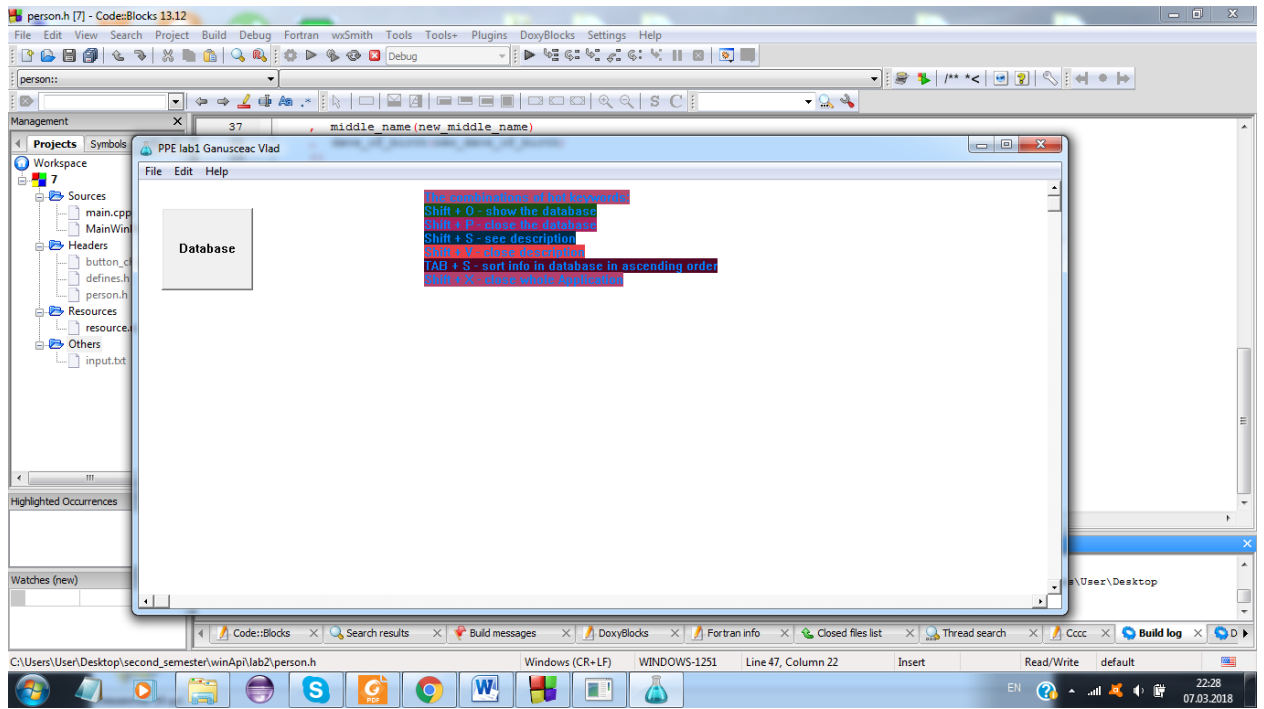
- Display a dialog box on some event (ex. on clicking some button)
- Add a system menu to your application with at least 3 items (add actions to that items)
- Add a scroll bar that will change any visible parameter of any other element (color of a text)
- Hook keyboard input. Add 2 custom events for 2 different keyboard combinations (ex. change window background on ctrl+space)

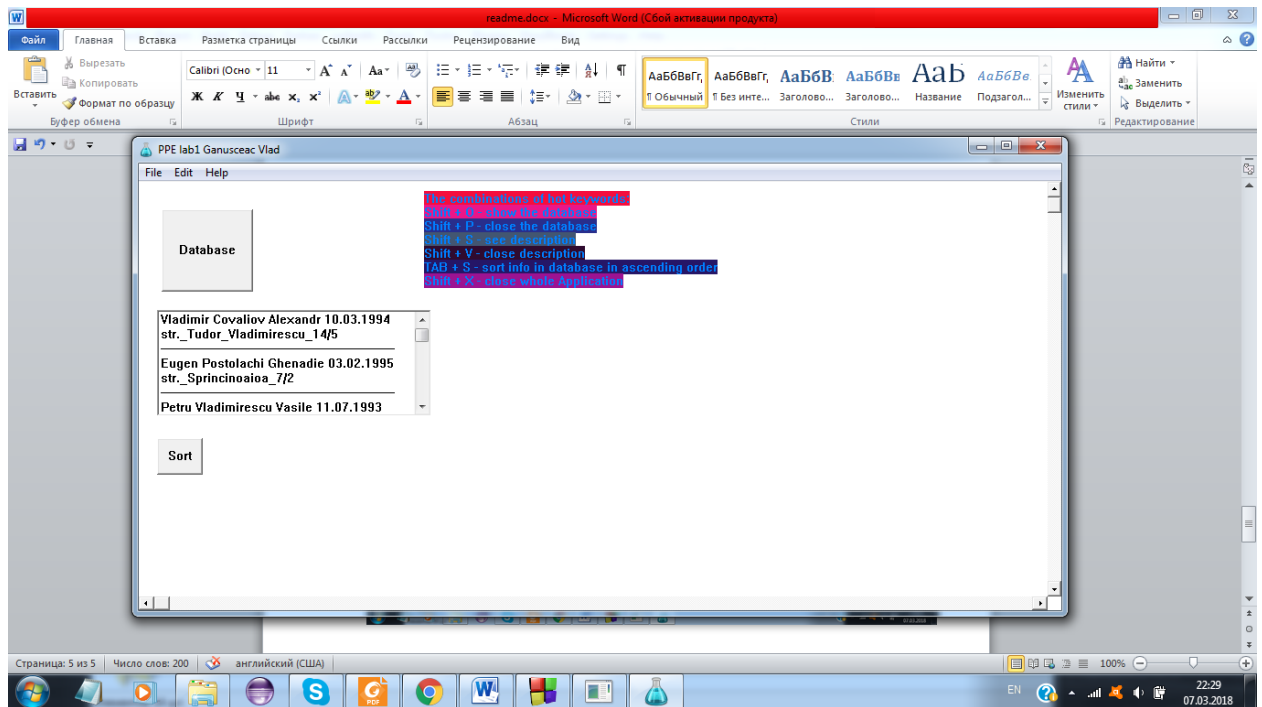
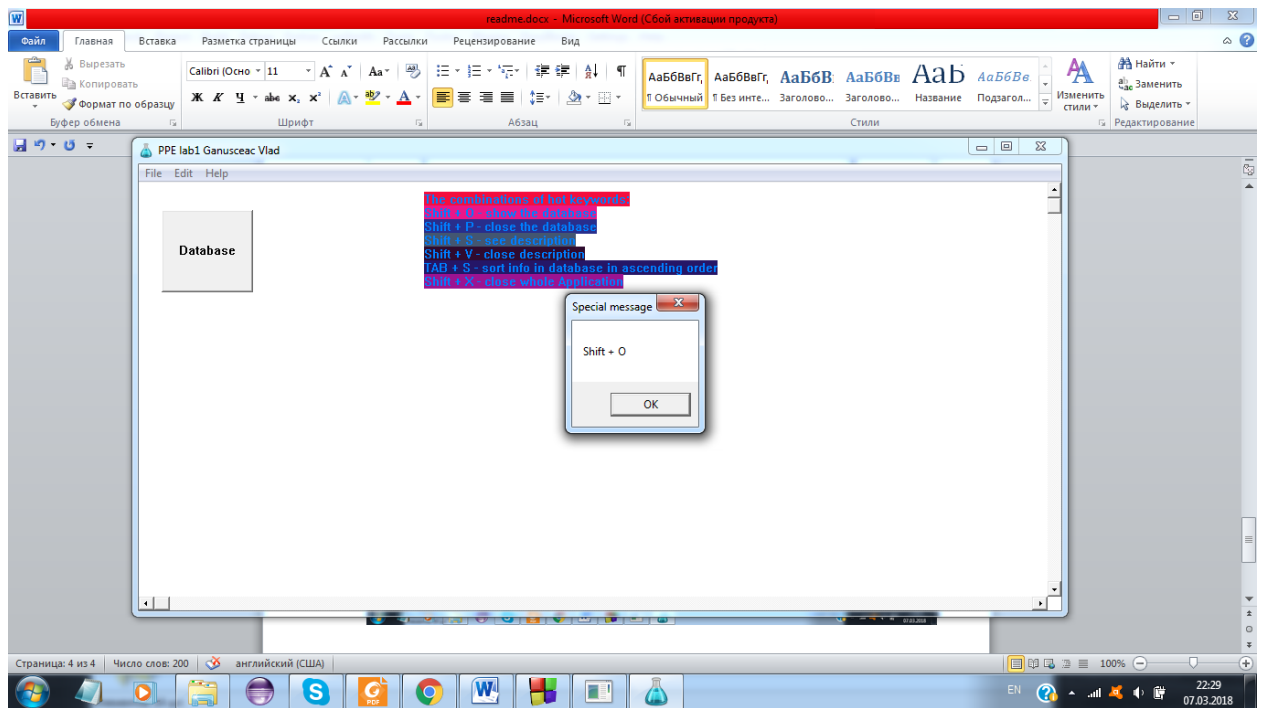
Objectives With Points:

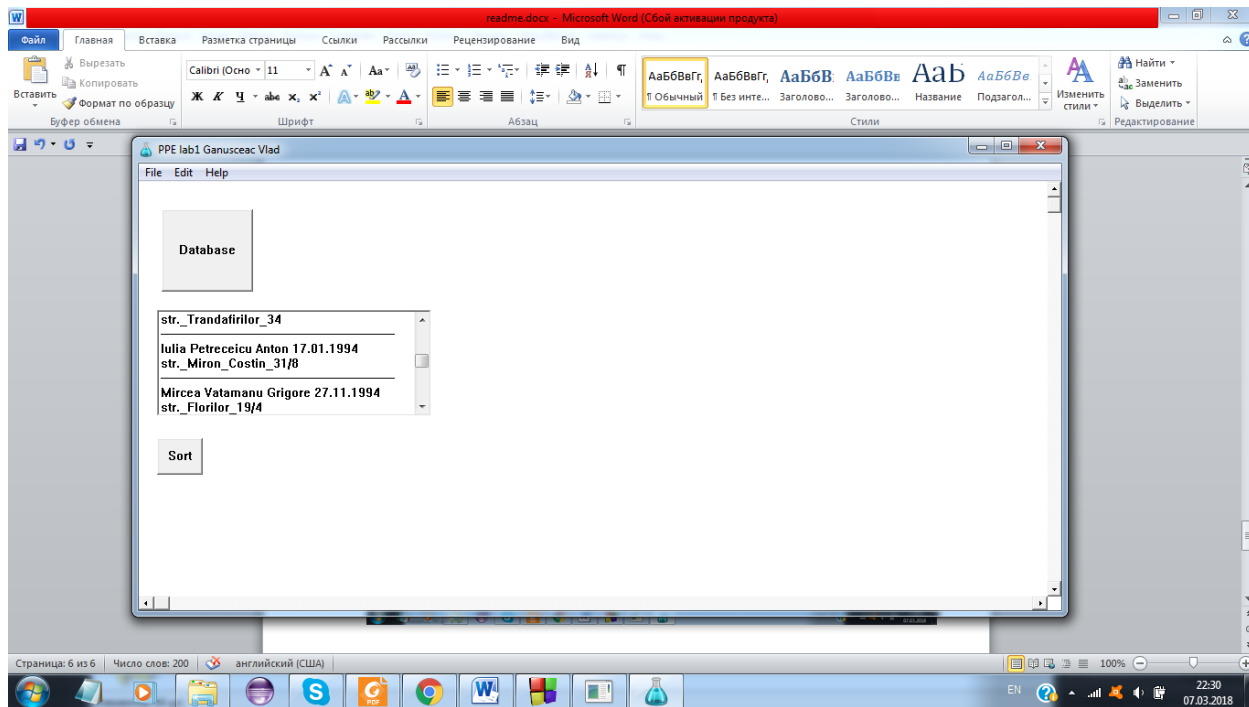
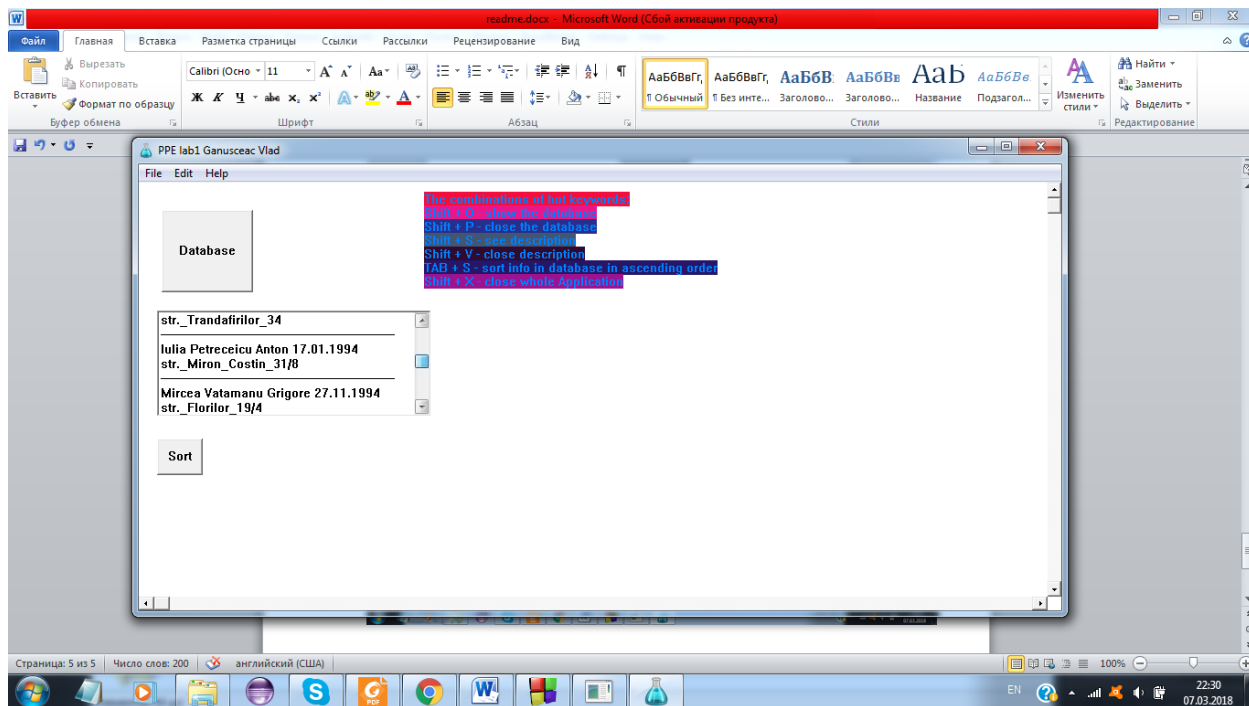
- Add a listbox and attach some events when any element is accessed (clicked) (2 pt)
- Add 2 scroll bars that will manage main window size or position (1 pt)
- Customize your application by adding an icon and using different cursor in application (1 pt)
- Use a scroll bar to scroll through application working space. Scroll should appear only when necessary (eg. when window width is smaller than 300px) (1 pt)

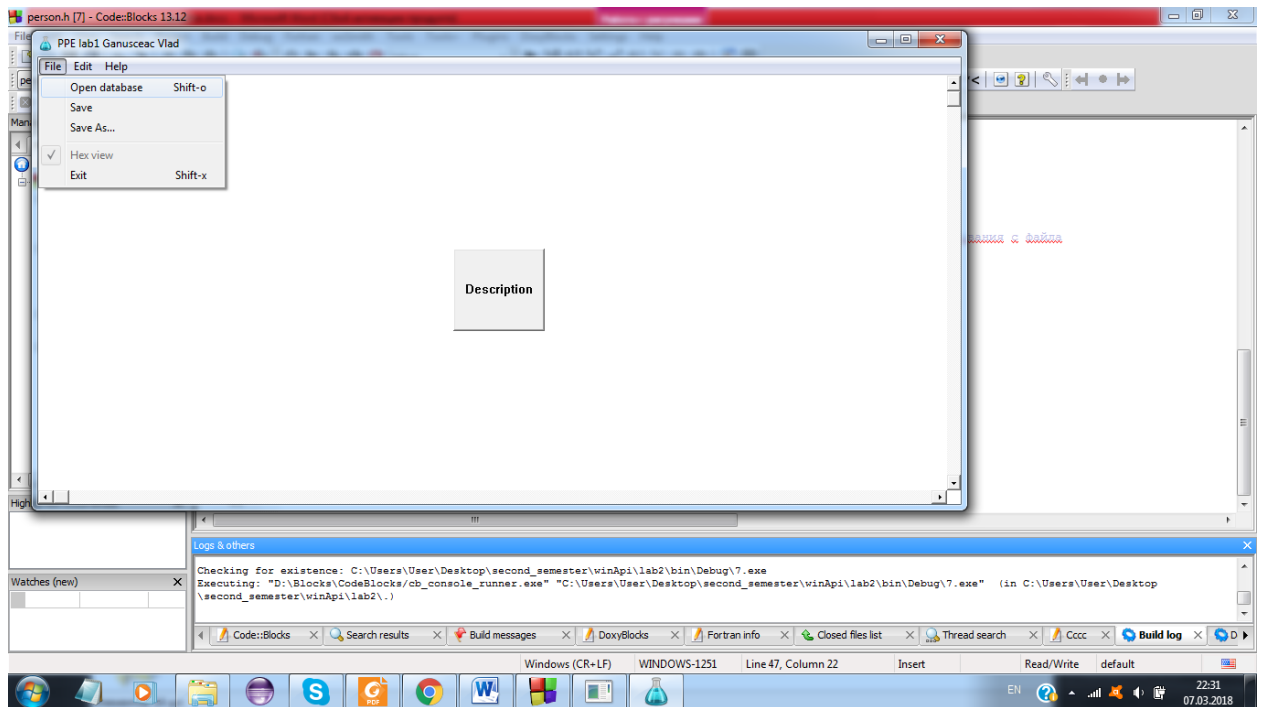
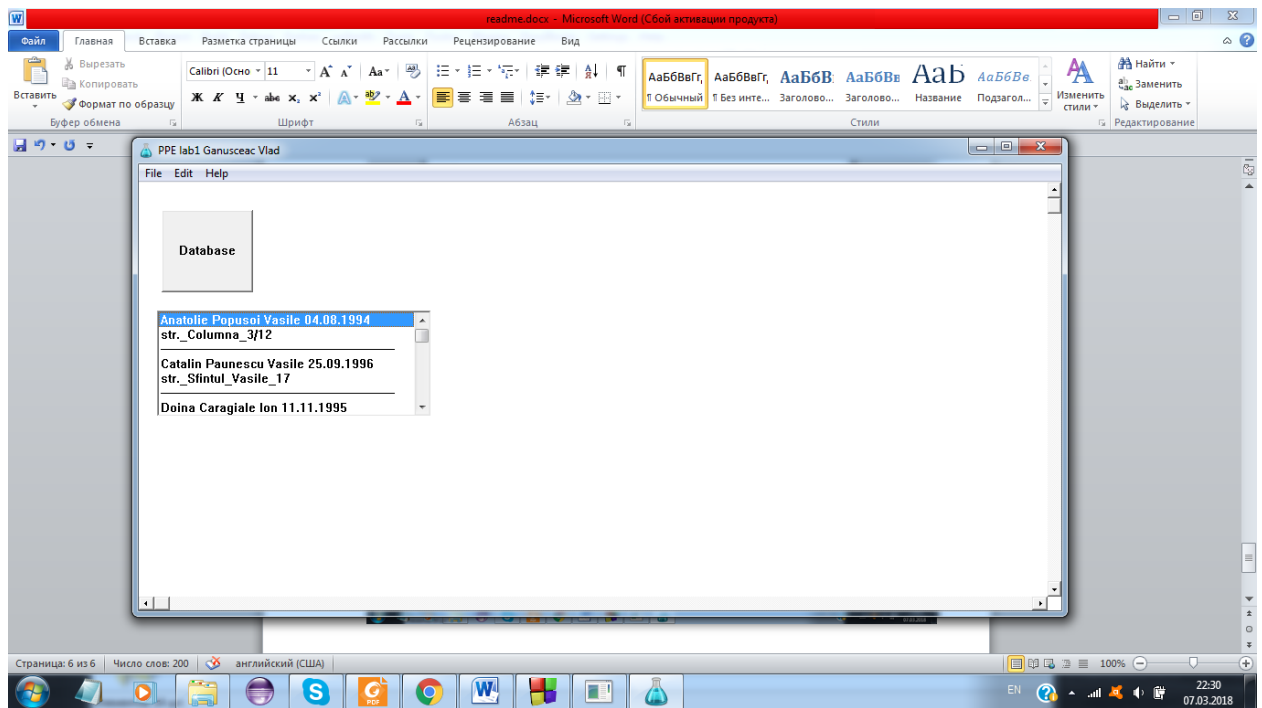
3 Laboratory work implementation

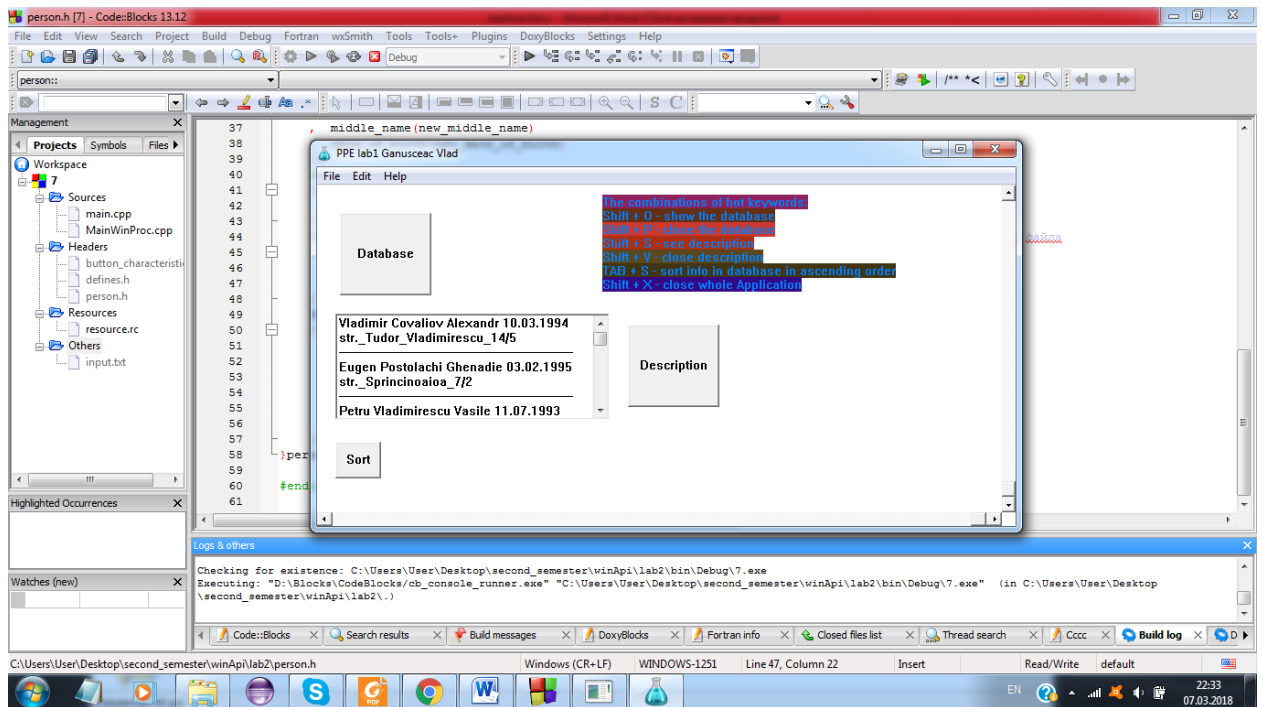
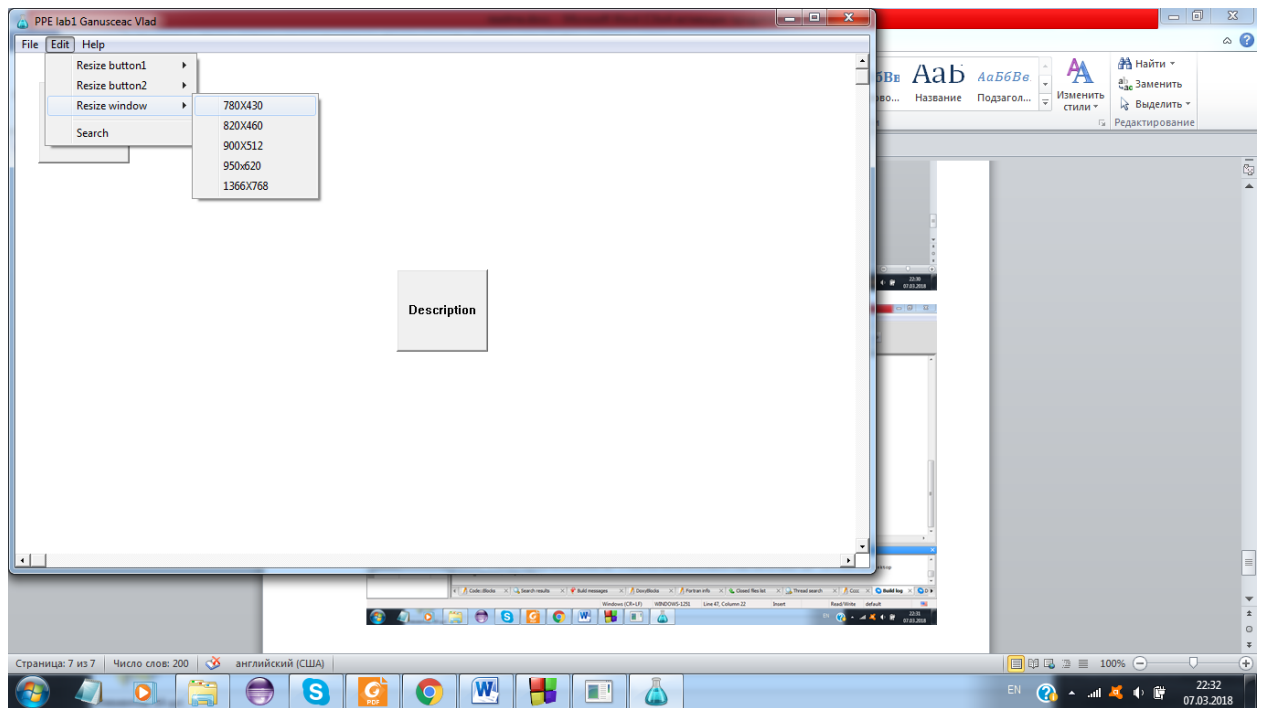












Conclusion:

In this laboratory we have studied and implemented different advanced form elements and child windows. We have loaded the menu with many options to our main window (for example, Open database, resize button, resize window, exit etc.). Using different combinations of characters from keyboard it is possible to do these options way much easier (for example, to sort the database in lexicographical order – TAB + S).

References:

<https://stackoverflow.com/questions/4473431/win32-how-to-create-a-listbox-control-using-the-createwindowexw-function/4474663#4474663> (Some child windowses examples)

<http://www.winprog.org/tutorial/controls.html> (Button, Edit, List Box)

<http://dims.karelia.ru/win32/> (Основы программирования для Win32 API)

[https://msdn.microsoft.com/en-us/library/windows/desktop/ff818516\(v=vs.85\).aspx](https://msdn.microsoft.com/en-us/library/windows/desktop/ff818516(v=vs.85).aspx) (Microsoft WinAPI)