# FACULTY OF COMPUTERS, INFORMATICS AND MICROELECTRONICS TECHNICAL UNIVERSITY OF MOLDOVA

# WINDOWS PROGRAMMING

Laboratory work #1

# Window. Basic window's form elements

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February 18, 2016

#### Laboratory work #1

#### 1 Purpose of the laboratory

Gain knowledge about basics of event-driven programming, understanding of window's class and basic possibilities of Win32 API. Also she will try to understand and process OS messages.

#### 2 Laboratory Work Requirements

### - Basic Level (grade 5 - 6) you should be able to:

- a) Create a Windows application
- b) In the middle of the window should be present the following text: "Done with Pride and Prejudice by student name". Replace student name with your name.
- c) On windows resize, text should reflow and be in window's middle (vertically and horizontally)

#### - Normal Level (grade 7 - 8) you should be able to:

- a) Realize the tasks from Basic Level.
- b) Add 2 buttons to window: one with default styles, one with custom styles (size, background, text color, font family/size)
- c) Add 2 text elements to window: one with default styles, one with custom styles (size, background, text color, font family/size)

#### - Advanced Level (grade 9 - 10) you should be able to:

- a) Realize the tasks from Normal Level.
- b) Make elements to interact or change other elements (2 different interactions) (ex. on button click, change text element color or position)
- c) Change behavior of different window actions (at least 3). For ex.: on clicking close button, move window to a random location on display working space

#### 3 Laboratory work implementation

#### 3.1 Tasks and Points

Here should be the list of the implemented tasks.

#### 3.2 Laboratory work analysis

Add link to your repository. Create a README.md file for each laboratory work you submit. It should include the tasks that you had been implemented. Explain the features that you had been added to your window.

#### 3.3 Prove your work with screens

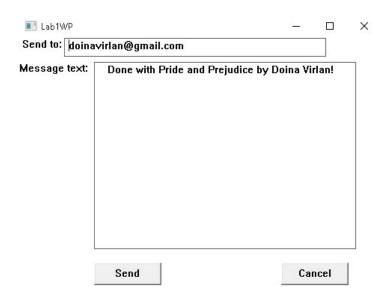
Should be added 1 pic/screen for each implemented functionality.

During my application i add two buttons, one is SEND and the second CANCEL.For do this laboratory work i use the function CreateWindow.I use the interface of sending an email, in my case: ,,Done with Pride and Prejudice by Doina Virlan!" The results of my work are attached here:

Done with Pride and Prejudice by student name!

III The Hello Program - □ ×

Done with Pride and Prejudice by Doina Virlan!



#### Conclusions

Here should be your conclusion

In this laboratory work we create a windows application using Win32 what is a C-based framework for creating Windows application. We learn how to do the button, how change the size, color, and more functions using for do this. I found out that every Win32-based application must have a Win-Main function. In addition to the WinMain function, every Windows desktop application must also have a Windows procedure function. This function is typically named WndProc. Finally all my result is presented above.

## References

- 1 Aldebran Robotics, official page, www.aldebaran.com/en
- 2 Timo Ojala, Multiresolution gray-scale and rotation invariant texture classification with local binary patterns, 2002
- ${\rm 3\ Biometric}, \, {\tt www.biometricupdate.com/201501/history-of-biometrics}$