**Lab – 1 (10%)**

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| **Term:** | **Winter 2023** | **Professor:** | **Gursharan Tatla** |
| **Course:** | **PROG1124 – Software Development** | **Email:** | **gursharan.tatla@niagaracollegetoronto.ca** |

**Please Be Advised That:**

1. Lab must be completed as an individual effort. Do not collaborate with anyone or share it with any individual, party or entity.
2. Do not share this lab with anyone or any 3rd party without the written consent of the professor.
3. This lab is of 10%.
4. Complete it and upload it to Canvas by due date/time, mentioned in Canvas.
5. All online submissions will be done via Canvas (Email submissions will NOT be accepted).
6. Corrupt/incorrect submissions will be graded as zero.
7. Make sure your PCs/laptops are in good working condition. If something does not work, or any application or system crashes, you will be responsible to fix it and submit your work on time. No excuses will be accepted during the lab.
8. Make sure your Visual Studio is in good working condition. No excuses will be entertained regarding issues with Visual Studio.

**Copyright Disclaimer:**

*The materials provided in class and in Canvas are protected by copyright. They are intended for the personal, educational uses of students in this course and should not be shared externally or on websites such as Chegg, Course Hero or OneClass. Unauthorized distribution may result in copyright infringement and violation of Niagara College’s policies.*

Gursharan Tatla (Winter 2023)

**Submission Instructions:**

1. Download this document. Rename it as ***Lab1YourFirstnameLastname***.
2. Take two screenshots of each project and paste them at the spaces provided in this document:
   * Run the project and take a screenshot of the ***output (active) window***.
   * Screenshot of the ***whole Visual Studio screen*** including the ***Taskbar*** that shows the date and time.
   * Use **Alt + PrtSc** to take the screenshot of the active window.
   * Use **PrtSc** to take the screenshot of the whole screen.
3. Make sure the screenshots are clear and readable.
4. Please note that if your screenshots didn’t follow the above-mentioned instructions, your lab will not be graded.
5. When finished, submit it to **Lab-1** under Assignments module on Canvas.

**Login Window:**

Graphical user interface, application

Description automatically generated

PasswordBox

Button

Label

Button

TextBox

1. Create a WPF project in Visual Studio and name it as **Lab1YourFirstnameLastnameLoginWindow**.
2. Design the Window that looks similar to the given screenshot.
3. Change the window’s Title attribute to **Login Window - Your Firstname Lastname**.
4. Replace the default Grid layout control with Canvas.
5. Add the required controls on to the Canvas.
6. Use your imagination for colors, fonts, font-size etc. **DO NOT** leave the colors and fonts as default. You must change them.
7. Clicking on the **Login** button displays the message box with your name, student id and email id.

Graphical user interface, text, application

Description automatically generated

[Take a screenshot of the output window and paste it here]

[Take a screenshot of the whole Visual Studio screen and paste it here]

**Personal Information:**

Graphical user interface, application

Description automatically generated

Label

GroupBox

Label

TextBox

Button

Checkbox

RadioButton

1. Create a WPF project in Visual Studio and name it as **Lab1YourFirstnameLastnamePersonalInfo**.
2. Design the Window that looks similar to the given screenshot.
3. Change the window’s Title attribute to **Personal Information - Your Firstname Lastname**.
4. Replace the default Grid layout control with Canvas.
5. Add the required controls on to the Canvas.
6. Use your imagination for colors, fonts, font-size etc. **DO NOT** leave the colors and fonts as default. You must change them.
7. Clicking on the **Save** button displays the message box with your name, student id and email id, just like how you did in ***Login Window*** project.

[Take a screenshot of the output window and paste it here]

[Take a screenshot of the whole Visual Studio screen and paste it here]

**Alarm Clock:**

Graphical user interface, diagram

Description automatically generated

Label

Buttons

GroupBox

RadioButton

1. Create a WPF project in Visual Studio and name it as **Lab1YourFirstnameLastnameAlarmClock**.
2. Design the Window that looks similar to the given screenshot.
3. Change the window’s Title attribute to **Alarm Clock - Your Firstname Lastname**.
4. Replace the default Grid layout control with Canvas.
5. Add the required controls on to the Canvas.
6. Use your imagination for colors, fonts, font-size etc. **DO NOT** leave the colors and fonts as default. You must change them.
7. Clicking on the **Snooze** button displays the message box with your name, student id and email id, just like how you did in ***Login Window*** project.

[Take a screenshot of the output window and paste it here]

[Take a screenshot of the whole Visual Studio screen and paste it here]

**Radio App:**

CheckBox

Graphical user interface

Description automatically generated

Button

Buttons

GroupBox

Image

Slider

CheckBox

Label

RadioButton

1. Create a WPF project in Visual Studio and name it as **Lab1YourFirstnameLastnameRadioApp**.
2. Design the Window that looks similar to the given screenshot.
3. Change the window’s Title attribute to **Radio App - Your Firstname Lastname**.
4. Replace the default Grid layout control with Canvas.
5. Add the required controls on to the Canvas.
6. You can download the free music symbol image from this link:

<https://pixabay.com/vectors/music-note-beams-beamed-notes-25705/>

1. Use your imagination for colors, fonts, font-size etc. **DO NOT** leave the colors and fonts as default. You must change them.
2. Clicking on the **Power On/Off** button displays the message box with your name, student id and email id, just like how you did in ***Login Window*** project.

[Take a screenshot of the output window and paste it here]

[Take a screenshot of the whole Visual Studio screen and paste it here]