**Lab – 2 (10%)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Term:** | **Spring 2023** | **Professor:** | **Dr. Manisha Krishnan** |
| **Course:** | **PROG1124 – Software Development** | **Email:** | **manisha.krishnan@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.*

**Lab Instructions:**

* Create a **Console App using C#** in Visual Studio and name it as **Lab2YourFirstnameLastname**.

**Question 1: 5 points**

* Write a program that generates two random integers between 1 and 9.
* Display a math quiz by asking the user: “What is randomNum1 + randomNum2?”.
  + Replace the **randomNum1** and **randomNum2** with the generated random numbers in the above question.
* Ask the user for the answer.
* If user provides the correct answer, display **Correct Answer** and close the program.
* If wrong answer is entered, display **Incorrect Answer** and close the program.

**Hint:**

**Generate two random numbers, between 1 and 9:**

Random rnd = new Random();

int rndNum1 = rnd.Next(1, 10);

int rndNum2 = rnd.Next(1, 10);

**Question 2: 5 points**

* Write a program that gets 3 numbers from the user. **(Use switch cases)**
* Display
  + **True** if one number is positive, one number is negative and one number is equal to 0 and close the program.
  + **False** otherwiseand close the program.

**Submission Instructions:**

* Once done, ***take screen shots of the code and the output*** and upload it to **Lab-2** in **Assignments** on Canvas.
  1. Make sure that you are uploading the correct file. Re-submissions or submissions through emails will not be accommodated.
  2. ***Double-check your submission by downloading it and running it.***
  3. If these submission instructions are not followed, Grade 0 will be granted.