**PROPOSAL PROJECT OUTLINE**

**Course Name:** ICS4U-01

**Project Name:** Powerball Lottery

**Project Time Period:** 01.06-10.06

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| **Project Description** | This project simulates up to one million Powerball drawings. If you purchase a $2 ticket, you can pick six numbers: five drawn from 1 to 69, and a sixth “Powerball” number drawn from 1 to 26. The order of the numbers doesn’t matter. If the lottery selects your six numbers, you win much money. Except you will not win, because your odds are 1 in 292,201,338. Currently, gambling addiction (and lottery addiction in particular) can seriously affect people. The project can help the user to understand that there is a very low probability of winning the lottery. It addition, using the project you can have all the excitement of playing the lottery without spending real money. |
| **Need** | Currently, gambling addiction (and casino/lottery addiction in particular) can seriously affect people. Consequences may include financial losses, bankruptcy, losing a job and many others. Some people may think that there is a high probability of winning the lottery. However, this is usually not true. |
| **Goals** | The project can help the user to understand that playing real lottery is not a very good idea. To help visualize how often you do not win the lottery, it can simulate up to one million Powerball drawings and then compare them with the numbers the user picked. So, using the program in the project you can have all the excitement of losing the lottery without spending real money. |
| **Methods** | I will be using Python (version 3.10.11) to simulate the Powerball lottery because it is the programming language I know best. In addition, this language is quite simple. The version is quite new and contains all the necessary functions for the project. I will use the Visual Studio IDE as it is the most convenient for me to work in it. My computer's operating system is Windows 10. |
| **Features** | * Text in the terminal * User input in the terminal (user interaction) |
| **Evaluation** | * The goals were achieved. * All features are included in the project. * The timeline was made well and was useful. * The methods were appropriate and effective. |
| **Timeline** | Planning the project (completing Project Management Document Template + Project Proposal Outline Sample): 01.06 – 04.06, 10.06  Working on program code, html document with documentation: 05.06-06.06  Writing the pseudocode: 06.06-08.06  Designing the flowchart: 08.06-09.06  Completing and checking the project: 10.06 |