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| A close up of a sign  Description automatically generated  Week #3 Assignment  4 Percent Assignment | One step forward to make a better Lottery app  Maziar Shajari  Introduction to C++ |

Coding practice:

In the last two weeks we tried to code a very simple lottery program using only 5 numbers between 1 to 49. Let’s step one more step forward toward having a better program.

The rules are:

1. Computer will generate 5 random winning numbers (From 1 to 49). Winning numbers will be written in a file with a title. Title is: **This week’s winning numbers.**
2. The file name is: **“YourFirstName”+LotteryFile**

**For me the file name would be: “MaziarLotteryFile”**

1. Computer will ask users about the number of times user wants to play. For each play user must pay 5 dollars.
2. User will enter 5 numbers for each play. (Numbers have to be added to the file)
3. At the end computer will reveal the winning numbers and the total money user win or lose.
4. It is not necessary to display the user selected numbers at the end. But it is necessary to tell user exactly how many time he/she selected the correct number. And how much user must pay or maybe win.
5. All numbers must be validated and if user is entering a number less than 1, or greater than 49, or a letter instead of number, computer must warn user and get another number.
6. In the first try, text file must be created and every time you are running the program, you must clear the file.
7. Use proper loops as much as needed.
8. Computer won’t create same numbers. All generated numbers must be checked.
9. User cannot enter repeated numbers. All numbers must be unique.
10. At the end, we will be asked to play lottery again (and probably lose again 😊).

* If one number is matched you will win 1 dollar.
* If two numbers are matched you will win 2 dollars.
* If three numbers are matched you will win 10 dollars.
* If four numbers are matched you will win 100 dollars.
* If five numbers are matched you will win **10000** dollars. (We are increasing the grand price to 10000)
* Otherwise you will lose 5 dollars (if no number is matched).

Keep in mind that:

* Having comments is a must for a programmer
* You must write the code using only the skills you have learned in the first five chapters.
* **You are not allowed to use arrays**. But you must use files.
* Try to write it as user friendly as you can. User must be encouraged to play again 😊
* **Send your project as a zip file**.

Enjoy coding and keep your codes as we might continue working on this assignment.