**CMSC203 Assignment 2 Implementation (Documentation)**

Class: CMSC203

 Program: Assignment 2

Instructor: Dr. Grinberg

 Summary of Description: It’s a program that guesses a number between 0 and 100.

 Due Date: 06/28/2021

 Integrity Pledge: I pledge that I have completed the programming assignment independently.

 I have not copied the code from a student or any source.

**Part1: Pseudo Code:** Here is a pseudo code for Assignment 2 program:

**Program should print header**

**Program should ask for an initial guess between 0 and 100**

**Should print out results using class methods from RNG class**

**Should allow user to guess between previous low and high guesses**

**Display the number of guesses**

**Should user if they’d like to play another round**

**Print the programmer’s name at the end**

**Data should be validated by RNG method**

**Part2: Comprehensive Test Plan**

A good test plan should be comprehensive. This means you should have a few test cases that test when the input is in and out of range, division by 0, incorrect Data type, etc. (Provide valid and invalid input)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cases | Input | Expected Output | Actual Output | Did Test Pass? |
| Case 1 | Name | Please enter a number between 1-100 | Please enter a number between 1-100 | yes |
| Case 2 | Wrong low integer | >>> Guess must be between 12 and 100. Try again | >>> Guess must be between 12 and 100. Try again | yes |
| Case 3 | Wrong high integer | Your guess is too high.  >>> Guess must be between 0 and 64. Try again | Your guess is too high.  >>> Guess must be between 0 and 64. Try again | yes |
| Case 4 | Correct integer | Congratulations, you guessed correctly.  Try again? (yes or no) | Congratulations, you guessed correctly.  Try again? (yes or no) | yes |

**Part3: Screenshots related to the Test Plan:**

**Cases 1-4**

Text

Description automatically generated

**Lessons Learned**

Write about your Learning Experience, highlighting your lessons learned and learning experience from working on this project.

What have you learned?

I learned how to reference static variables from another class

What did you struggle with?

The initial struggle was integrating the class methods into my program. The input validation to be specific.

What would you do differently on your next project?

I’d look for a more an elegant approach.

What parts of this assignment were you successful with, and what parts (if any) were you not successful with?

I believe storing the previous high and low guesses was the most difficult thing to do.

Provide any additional resources/links/videos you used to while working on this assignment/project.

**Check List:** <Provide answers to the column Y/N or N/A >**:**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** |  | **Y/N** | **Comments** |
|  | **Assignment files:** |  |  |
|  | * FirstInitialLastName\_ Assignment#\_Moss.zip | **Yes or No** |  |
|  | * FirstInitialLastName\_Assignment#Complete.zip | **Yes or No** |  |
|  |  |  |  |
|  | **Program compiles** | **Yes or No** |  |
|  | **Program runs with desired outputs related to a Test Plan** | **Yes or No** |  |
|  | **Documentation file:** |  |  |
|  | * Comprehensive Test Plan | **Yes or No** |  |
|  | * Screenshots related to the Test Plan | **Yes or No** |  |
|  | * Screenshots of your GitHub account with submitted Assignment# (if required) | **Yes or No or N/A** |  |
|  | * UML Diagram (if required) | **N/A** |  |
|  | * Algorithms/Pseudocode (if required) | **Yes or No or N/A** |  |
|  | * Flowchart (if required) | **Yes or No or N/A** |  |
|  | * Lessons Learned | **Yes or No** |  |
|  | * Checklist is completed and included in the Documentation | **Yes or No** |  |