**CMSC203 Assignment 2 Design**

Class: CMSC203 CRN XXXX

 Program: Assignment #

Instructor:

 Summary of Description: (Give a brief description for each Program)

 Due Date: 2/20

 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:

**create a new scanner**

**create a int called guesses**

**boolean continue = true**

**generate randnumber**

**print Enter your First Guess**

**take the next int from the scanner**

**add 1 to guesses**

**validate the guess**

**if returns true print Congratulations, you guessed correctly**

**print Try again? (yes or no)**

**if yes then start from the top using a while loop and the boolean**

**if no then print Thanks for playing**

**if validate returns false**

**check if the number is high or lower then the guess**

**if higher print Your guesss is too low**

**print Bumber of guesses is: + guesses**

**print enter your next guess between + guess and 100**

**if lower print Your guess is too high**

**print number of guess is: + guesses**

**print enter your next guess between 0 and + guess**

**repeat**

**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 |  |  |  |  |
| Case 2 |  |  |  |  |
| Case 3 |  |  |  |  |
| Case 4 |  |  |  |  |