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CMSC 203

Project 2

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**Final design:**

* System.out asks the user for an initial guess for the random number
  + Guess is between 0 to 100
  + Prints the number of guess with nextGuess()
* Scanner with a Boolean called userCorrect checking whether the users number is correct or not, also used randNum=RNG.ran() to create the random number.
* For checking whether the user’s number is the same as the random number generated use a while loop:
  + Take user input of random number
  + If statement using RNG.inputValidation()
  + More if statement
    - (nextGuess > randNum)
    - if else statement (nextGuess < randNum)
    - else statement used for if the user gets the number correct
* If at any point the number that the user inputted is greater than the range of the guess user is prompted to enter a guess between the range – this is where the input validation comes in and helps the user get closer to the random number
  + If the user’s guess was correct, then the user is prompted whether if they want to play again
  + If the user answers and it is no, then the code is terminated and prints “Thanks for playing…”
    - Else, if the answer is wrong then the user is asked to guess again this keeps going till the user finally guesses the random number generated
    - Prints number of guess if needed
    - The number the user guess will then return whether its higher or lower than the random number