# **Pre-Lab Write Up**

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Lab: Lab 1: Guessing game

1. Describe in English what this program is supposed to do (not how it does it). **This should be able to be your class comment at the top of your program** **(you may copy and paste this into your program later)**:

This is a game where the computer picks a random number, and the player has to guess it.

1. List the separate tasks needed to accomplish what you described in part 1. These should be the individual methods you are going to have in your program (**both public and private methods**):

I’m considering a more class-based implementation for the game but for now I’ll just stick with what I have now.

* IntroGame
* playGame
* displayGuessesTaken
* displayResults
* getTruth

1. For each of the tasks/methods in part 2, describe in English what they are supposed to do (not how they do it). Additionally, note any information each of the tasks need to accomplish their goal as well as any information they need to give back. **These should be able to be used as your method comments in your program** **(you may copy and paste this into your program later)**:

Method Name: introGame

Method Description:

Prints a message introducing the game.

Method Name: playGame

Method Description:

Takes a scanner so it can get input from the console.

Runs the game, then returns the number of guesses the user took.

Parameters (for each: type and what it represents):

Scanner console

Returns (type and what it represents):

int guesses

Method Name: displayGuessesTaken

Method Description:

Takes some number of guesses, then prints a message telling the user how many guesses they took.

Parameters (for each: type and what it represents):

int guessesTaken

Continue below with the rest of the tasks/methods you listed from part 2:

displayResults: takes the users guesses, games, and best game, then displays the user's games' stats.

GetTruth: takes a string representing a yes or no answer, then returns true or false based on the answer.

1. For each of the tasks in part 3, give a brief description in English of how you plan to accomplish the task. You may either describe it thoroughly in English, use pseudo-code, or use a combination of the 2:

introGame: print a long message.

PlayGame: generate a random number between 1 and 100, ask the user for a number, tell them if their number is higher or lower than the computer’s, repeat until they guess right, return guesses

displayGuessesTaken: print "You got it right in 1 guess" if they got it right in 1 guess, otherwise print "You got it right in [guesses] guesses"

displayResults: print some stuff

getTruth: return true if the user’s answer begins with “y”, return false if it does not.

1. What questions do you still have about this lab after reading through the specification and completing the pre-lab?