# IT 115 Assignment 11: PY – While & For Loop Walkthrough

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**GitHub Repo Location:** <https://github.com/Shannon-Murdock/it115/tree/main/it115/assignment-11>



# Guessing Game - Shannon Murdock, IT115

"""

Create an object for the computer to generate a random number.

The randint subclass will generate a number from 1 through 100 (inclusive).

"""

import random

def validate\_input(user\_input):

    try:

        num = int(user\_input)

        if 1 <= num <= 100:

            return True, num

        else:

            print("Please enter a number between 1 and 100.")

            return False, None

    except ValueError:

        print("Please enter a valid number.")

        return False, None

# Generate random number

secret\_number = random.randint(1, 100)

guess = None

# Main game loop

while guess != secret\_number:

    # Get user input

    user\_input = input("Guess a number between 1 and 100: ")

    # Validate input

    valid, guess = validate\_input(user\_input)

    if not valid:

        continue

    # Compare guess with secret number

    if guess < secret\_number:

        print("Too low.")

    elif guess > secret\_number:

        print("Too high.")

    else:

        print("Winner! Winner! Chicken Dinner! You guessed the right number!")