Number Guessing Game:

import random

def main():

    print("Welcome to the Number Guessing Game!")

    print("I'm thinking of a number between 1 and 100. Can you guess it?")

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

    attempts = 0

    while True:

        try:

            guess = int(input("Enter your guess: "))

            attempts += 1

            if guess < secret\_number:

                print("Try higher.")

            elif guess > secret\_number:

                print("Try lower.")

            else:

                print(f"Congratulations! You've guessed the number {secret\_number} in {attempts} attempts!")

                break

        except ValueError:

            print("Invalid input. Please enter a valid number.")

    print("Thank you for playing!")

if \_\_name\_\_ == "\_\_main\_\_":

    main()