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# the Number Guessing Game
# 1. Setup the game
secret_number = 7

# OR you can use the random library to generate a random number
import random # imports the python random library
secret_number = random.randint(0,20) # generates a random number between 0 and 20

attempts = 0
max_attempts = 5
guessed_correctly = False

print("Welcome to the Number Guessing Game!")
print(f"You have {max_attempts} attempts to guess a number between 1 and 10.")

# 2. Use a while loop to control the game flow
while attempts < max_attempts and guessed_correctly == False:
    # 3. Get user input
    user_guess = int(input("attempt number " + str(attempts) + ". Enter your guess: "))

    # 4. Check the input and print feedback
    if user_guess == secret_number:
        print(f"Correct, you win the guessing game!")
        guessed_correctly = True

    elif user_guess < secret_number:
        print("Too low, guess again")
    else:
        print("Too high, guess again")

    attempts += 1

# 5. Game over
if guessed_correctly == False:
    print(f"\nGame Over. You ran out of attempts.")
    print("You lost the guessing game :(")
```