**Exercise 1: Number Guessing Game**

**Objective:** Write pseudocode for a game where a player guesses a number between 1 and 100. The game continues until the player guesses the correct number.

**Pseudocode:**

start

Declarations

num secretNumber = [Choose a random number between 1 and 100]

num guess

boolean correctGuess = false

output "Guess a number between 1 and 100"

while correctGuess is false

input guess

if guess < secretNumber then

output "Too low. Try again."

else if guess > secretNumber then

output "Too high. Try again."

else

output "Congratulations! You guessed the correct number."

correctGuess = true

endif

endwhile

stop

**Explanation:**

1. Start by declaring necessary variables, including secretNumber, guess, and correctGuess.
2. Output a prompt to the player.
3. Use a while loop to continue the game until correctGuess is true.
4. Input the player's guess.
5. Compare the guess with the secretNumber and provide feedback:
   * If the guess is too low, prompt the player to try again.
   * If the guess is too high, prompt the player to try again.
   * If the guess is correct, congratulate the player and set correctGuess to true.
6. End the game when the correct number is guessed.