Define function get\_user\_input(prompt, min\_val=None, max\_val=None):

Loop indefinitely:

Try:

Prompt user and read input as an integer (user\_input)

If min\_val is not None and user\_input < min\_val:

Print "Please enter a number between min\_val and max\_val"

Else if max\_val is not None and user\_input > max\_val:

Print "Please enter a number between min\_val and max\_val"

Else:

Return user\_input

Except ValueError:

Print "Invalid Entry. Please enter a number."

Define main function:

Call get\_user\_input with "Enter the lower bound: " and assign to min\_val

Loop indefinitely:

Call get\_user\_input with "Enter the upper bound: " and assign to max\_val

If max\_val > min\_val:

Break loop

Else:

Print "Upper bound must be greater than lower bound. Please try again."

Generate a random number between min\_val and max\_val and assign to secret\_number

Initialize guess\_count to 0

Loop indefinitely:

Call get\_user\_input with "Guess a number between min\_val and max\_val: ", min\_val, max\_val and assign to guess

Increment guess\_count by 1

If guess equals secret\_number:

Print "Congratulations! You guessed the correct number in guess\_count guesses."

Break loop

Else if guess < secret\_number:

Print "Too low! Try again."

Else:

Print "Too high! Try again."

If script is run directly (if \_\_name\_\_ = = "\_\_main\_\_"):

Call main function