```
FUNCTION higherLowerGame():

        DISPLAY "Welcome to the Higher/Lower Game!"

       //Input validation for lower bound

       REPEAT:

              INPUT lowerBound

              IF lowerBound  is not a number THEN

                   DISPLAY "Please enter a valid number for the lower bound."

              ELSE IF lowerBound >= upperBound THEN

                  DISPLAY "Lower bound must be less than the upper bound."


//Input validation for upper bound

REPEAT:

       INPUT upperBound

       IF upperBound is not a number THEN

            DISPLAY "Please enter a valid number for the upper bound."

       ELSE IF upperBound <= lowerBound then

            DISPLAY "Upper bound must be hreater than the lower bound."


//Generate a random number between lower and upper bounds.

RandonNumber = GENERATE_RANDOM_NUMER between lowerBound and upperBound


//Game loop

REPEAT:

       //Prompt the user for a guess

       DISPLAY "Enter your guess between" , lowerBound, "and" , upperBound

       INPUT userGuess


       //Input validation for users guess
```

```
    IF userGuess is not a number THEN
        DISPLAY "Please enter a valid number."

    ELSE IF userGuess < lowerBound or userGuess > upperBound THEN

        DISPLAY "Your guess should be between" , lowerBound, "and" , upperBOund

    ELSE IF userGuess < randomNumber THEN

        DISPLAY "Too high! Try again."

    ELSE:

        DISPLAY "Congratulaions! You guessed the correct number!"


//Loop until the user guesses the correct number

UNTIL userGuess equals randomNumber


END FUNCTION
```