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**IT 140**

**Module4-3\_Pseudocode Revisited**

PRINT "Welcome to the higher/lower game, Bella!"

// Step 1: Get lower and upper bounds with input validation

WHILE true

READ lowerBound from user with prompt "Enter the lower bound: "

READ upperBound from user with prompt "Enter the upper bound: "

IF lowerBound < upperBound THEN

BREAK

ELSE

PRINT "The lower bound must be less than the upper bound."

ENDIF

ENDWHILE

// Step 2: Generate a random number between lowerBound and upperBound

SET randomNumber to a random integer between lowerBound and upperBound inclusive

// Step 3: Prompt user to guess a number with input validation and feedback

PRINT "Great, now guess a number between " + lowerBound + " and " + upperBound + ": "

WHILE true

READ guess from user with prompt ""

IF guess < lowerBound OR guess > upperBound THEN

PRINT "Please guess a number between " + lowerBound + " and " + upperBound + "."

ELSE IF guess < randomNumber THEN

PRINT "Nope, too low."

PRINT "Guess another number: "

ELSE IF guess > randomNumber THEN

PRINT "Nope, too high."

PRINT "Guess another number: "

ELSE

PRINT "You got it!"

BREAK

ENDIF

ENDWHILE