//RecursiveMultiPJG

Module main()

Declare Integer num1, num2, sum

Declare Boolean intInput

Display "This program is designed to multiply any"

Display "2 nonzero-positive whole numbers."

Display whitespace

//construct scanner object

//while loop for input mismatch

While NOT intInput

Display "Input the number you would like to multiply: "

//whitespace

Try

Input num1

Set intInput = true

End Try

Catch

Set intInput = false

//clear input

Display "INVALID. TRY AGAIN."

End Catch

End While

//reset boolean

Set intInput = false

//while loop for input mismatch

While NOT intInput

Display "Input how much you would like to multiply it by: "

//whitespace

Try

Input num2

Set intInput = true

End Try

Catch

Set intInput = false

//clear input

Display "INVALID. TRY AGAIN."

End Catch

End While

Set sum = multiply(num1, num2)

Display "The result is ", sum, "."

End Module

Function Integer multiply(Integer x, Integer y)

Declare Integer result = 0

If y > 0 Then

Set result = multiply(x, y - 1)

Set result = result + x

End If

Return result

End Function