//RectangleAreasPJG

Module main()

//variable hold input to pass to function

Declare Real rec1, rec2

//Module informs user

Call showDetails()

//ask user for first rect input

Display “First we get rectangle 1’s length and width.”

//recArea() is called and assigned to rec1

Set rec1 = recArea()

Display “The area of rectangle 1 is “, rec1

Display “Now we get rectangle 2’s length and width.”

//call recArea() a second time; assign to rec2

Set rec2 = recArea()

Display “The area of rectangle 2 is “, rec2

//passing both rec1 and rec2 to compare the areas

Call compareArea(rec1, rec2)

End Module

Module showDetails()

Display “You will be asked to enter the length and width”

Display “of two separate rectangles.”

Display “Afterwards, the program determines which is greater.”

End Module

//This module gets the length and width of a rectangle and calculates the area

Function Real recArea()

Declare Real length, width, area = 0

Declare Boolean dblInput = false

While dblInput NOT true

Try

Input length

Set dblInput = true

Catch

Set dblInput = false

Input is cleared

End While

Set dlbInput = false

While dblInput NOT true

Try

Input width

Set dblInput = true

Catch

Set dblInput = false

Input is cleared

End While

Set area = length \* width

Return area

End Function

Function Void compareArea(Real area1, Real area2)

If area1 > area2 Then

Display “Rectangle 1 has a greater area than 2.”

Else

If area1 < area2 Then

Display “Rectangle 2 has a greater area than 1.”

Else

Display “The area of the two rectangles are the same!”

End If

End If

End Function