**Activity 1**

The idea there is basically to get distance between numbers the distance will tell how close the numbers are, in this case 2 numbers.

Logic is simple:

Distance is a difference in numbers from two points, example: 3 and 1, the distance would be 2, as we subtract 3-1 = 2 🡨 That is the distance.

However, as we have an array we must use some methods to create it appropriate and somehow efficient.

Array {-3, 7, 2, 4, 8, -19}

Arraysort(array)

Define (int) minDif = Math.abs(array[0]-array[1])

Define (int) valueOne = array[0]

Define (int) valueTwo = array[1]

Define/initialize (int) testVar = 0

For counterIndex = 0; counterIndex less than the length of the array; counterIndex + 1

testVar = Math.abs(array[counterIndex]-array[counterIndex+1]

if testVar less than minDif

minDif = testVar

valueOne = array[counterIndex]

valueTwo = array[counterIndex+1]

define getIndexOne = counterIndex;

define getIndexTwo = counterIndex+1;

display (The closes number are valueOne and ValueTwo and the index are getIndexOne and getIndexTwo