# Function Testing

testArray1 = (1,2,3,4,5,6,7,8,9,10) - 10 values  
testArray2= (-5,-4,-3,-2,-1,0,1,2,3,4,5) - 11 values  
testArray3= (-110000,-105000,-1000,-100,-10,-1,0,1,10,100,1000,150000, 195000) - 13 values  
testArray4= (-25,-15,-20,5,-5,20,0,1,5,10,9,10,9,5,-10,10) - 16 values   
testArray5= (-5,5,-4,4,-3,3,-2,2,-1,1,0) - 11 values  
testArray6= (5,10,4,6,8,1,0,4,9,5) - 10 values  
testArray7= (-5,-10,-4,-6,-8,-1,0,-4,-9,-5) - 10 values  
testArray8= (-10,10,-5,“A”,5,“B”,-3,3,-2,”C”) - 10 values

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Array | getVelocity  Expected | getVelocity  Actual | getFrequency  Expected | getFrequency  Actual |
| testArray1 | 5.5 | 5.5 | 0 | 0 |
| testArray2 | 0 | 0 | 0 | 0 |
| testArray3 | 10000 | 10000 | 0 | 0 |
| testArray4 | .5625 | .5625 | 37.45 | 37.5 |
| testArray5 | 0 | 0 | 49.10 | 49.09 |
| testArray6 | 5.2 | 5.2 | 29.94 | 30 |
| testArray7 | -5.2 | -5.2 | 29.94 | 30 |
| testArray8 | Not valid | NaN | Not valid | 18 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Array |  |  |  |  |
| testArray1 |  |  |  |  |
| testArray2 |  |  |  |  |
| testArray3 |  |  |  |  |
| testArray4 |  |  |  |  |
| testArray5 |  |  |  |  |
| testArray6 |  |  |  |  |
| testArray7 |  |  |  |  |
| testArray8 |  |  |  |  |

Testing code:

var testArray1=new Array(1,2,3,4,5,6,7,8,9,10);  
var testArray2=new Array(-5,-4,-3,-2,-1,0,1,2,3,4,5);  
var testArray3=new Array(-110000,-105000,-1000,-100,-10,-1,0,1,10,100,1000,150000, 195000)  
var testArray4 = new ArraytestArray4= (-25,-15,-20,5,-5,20,0,1,5,10,9,10,9,5,-10,10);  
var testArray5 = new Array(-5,5,-4,4,-3,3,-2,2,-1,1,0)  
var testArray6 = new Array(5,10,4,6,8,1,0,4,9,5)  
var testArray7 = new Array(-5,-10,-4,-6,-8,-1,0,-4,-9,-5)  
var testArray8 = new Array(-10,10,-5,'A',5,'B',-3,3,-2,'C')