# **Daily Entries**

Tuesday, September 17, 2019

2:08 PM

### START 3:30 PM - 9/18/19

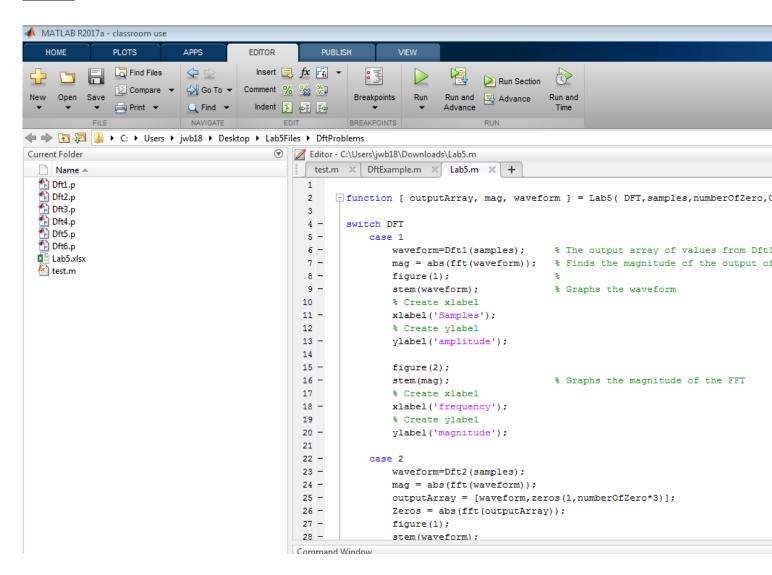
### **PROBLEM**:

Started putting all of my data in excel assuming we had to do it that graphing improperly and put myself in the wrong direction.

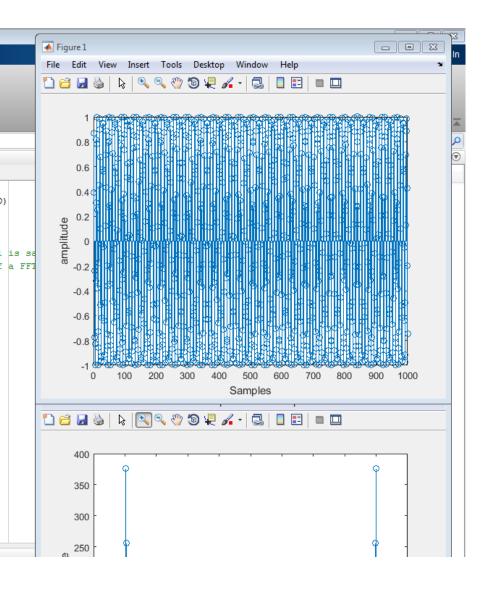
#### **SOLUTION:**

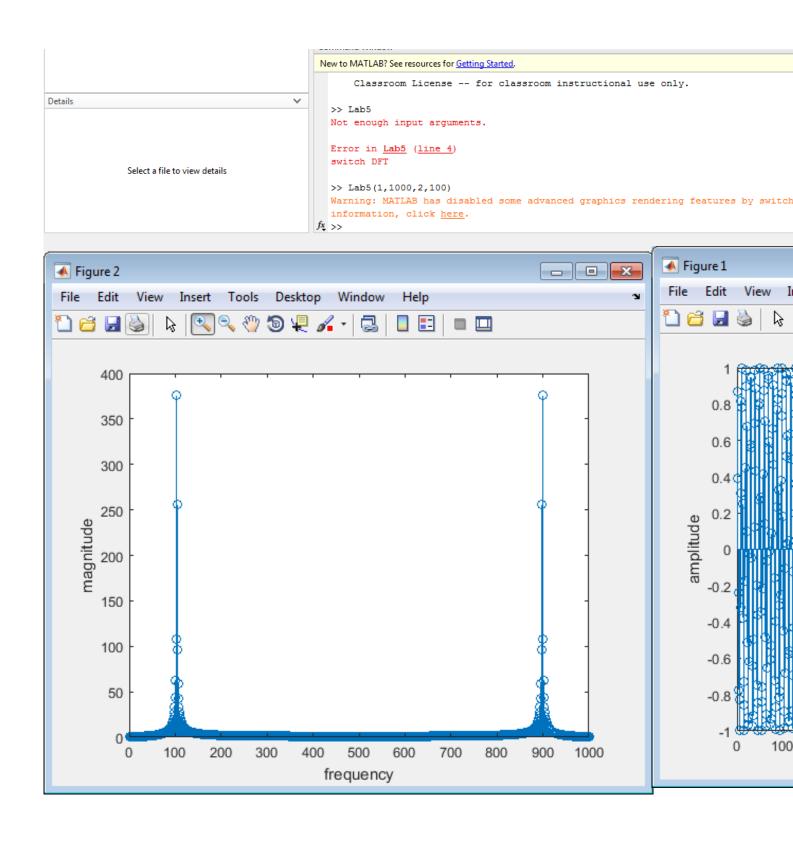
Started modifying the program to work off of MatLab directly.

**DFT1**: Ran with: 1000 Bin #, 2 Zeros, 100 Samples



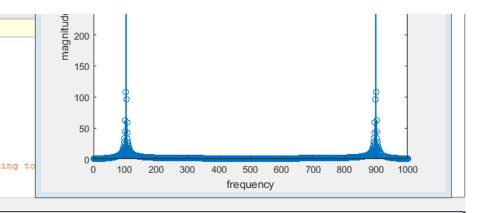
# way. Ended up

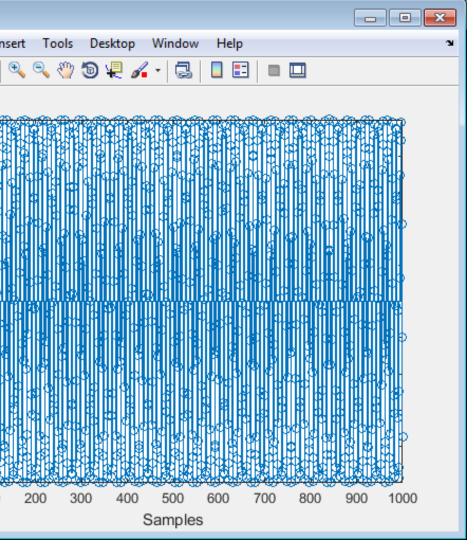


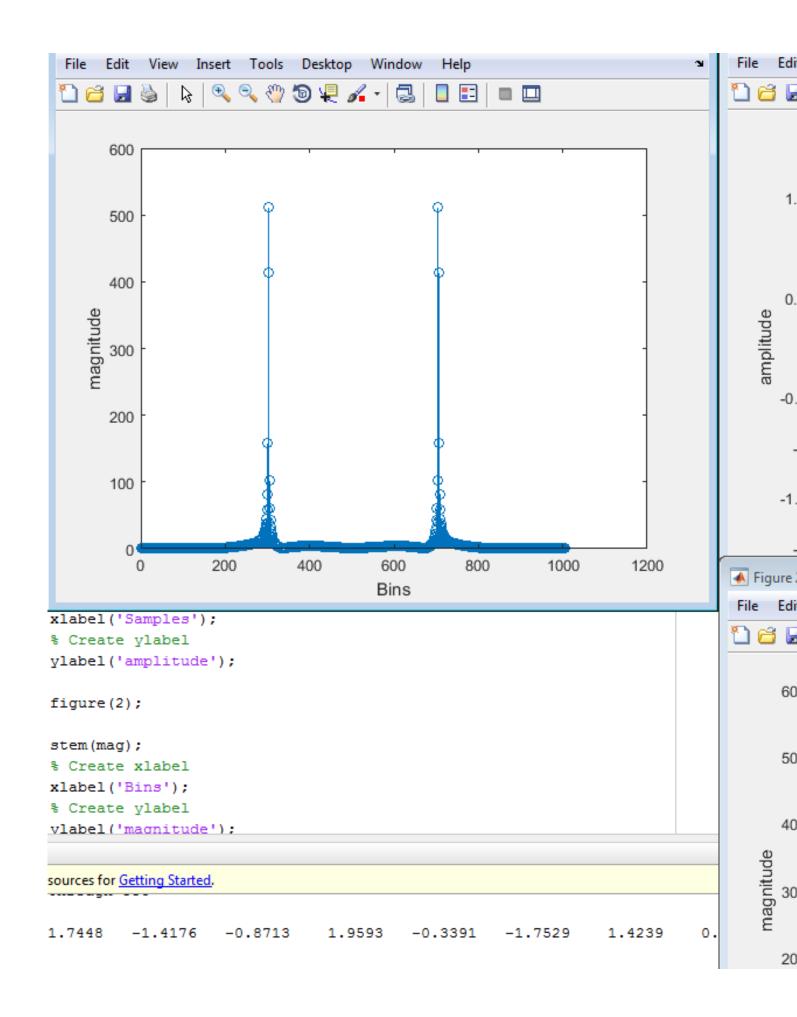


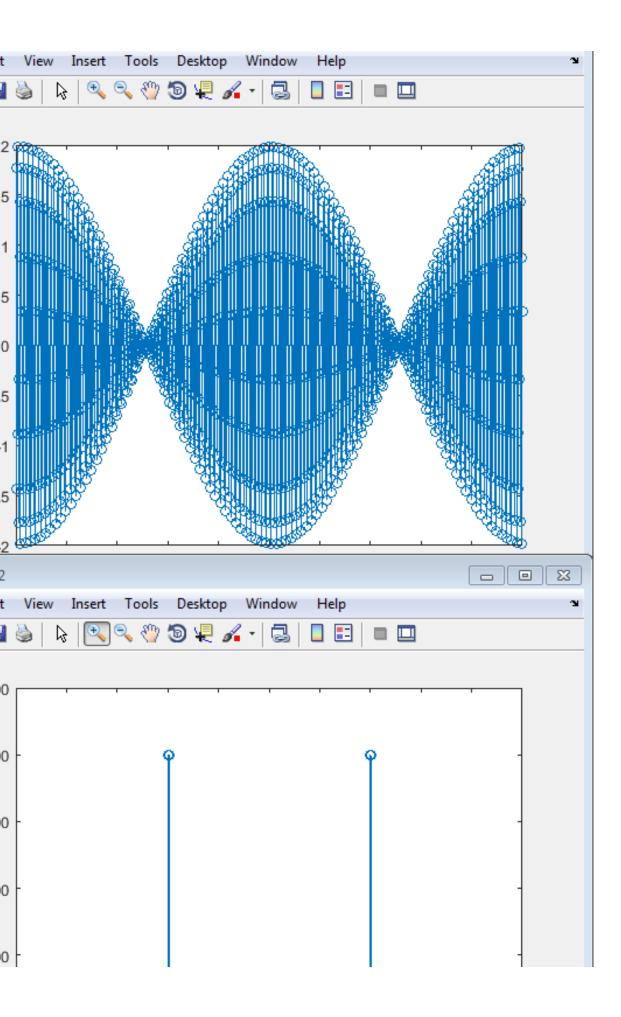
DFT2: 1000 Samples, 0 Zeros, 100 Samples

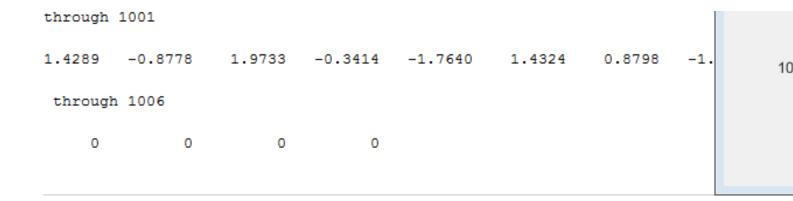




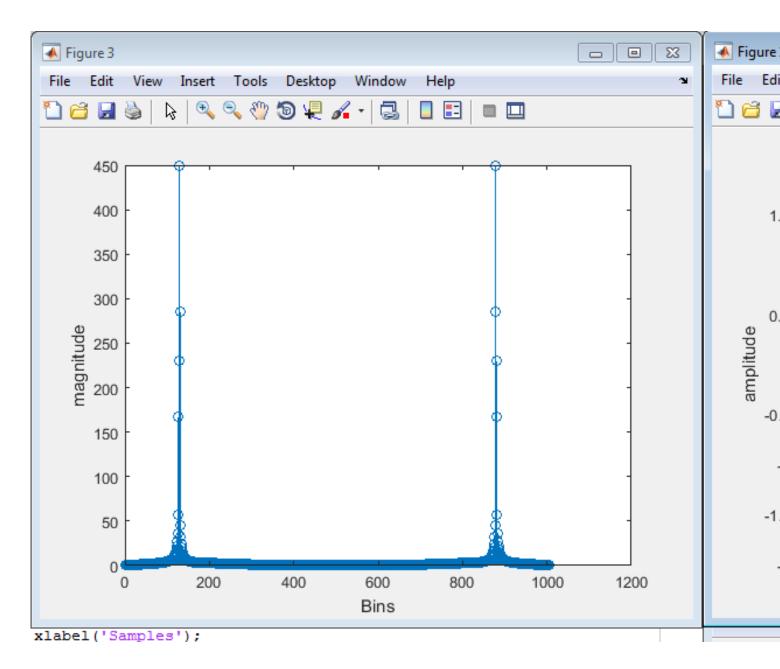


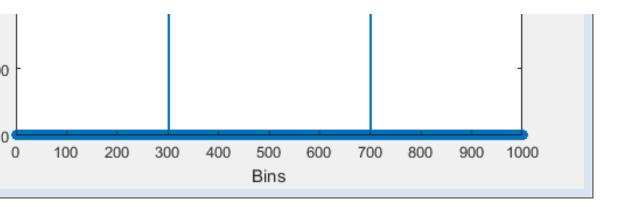


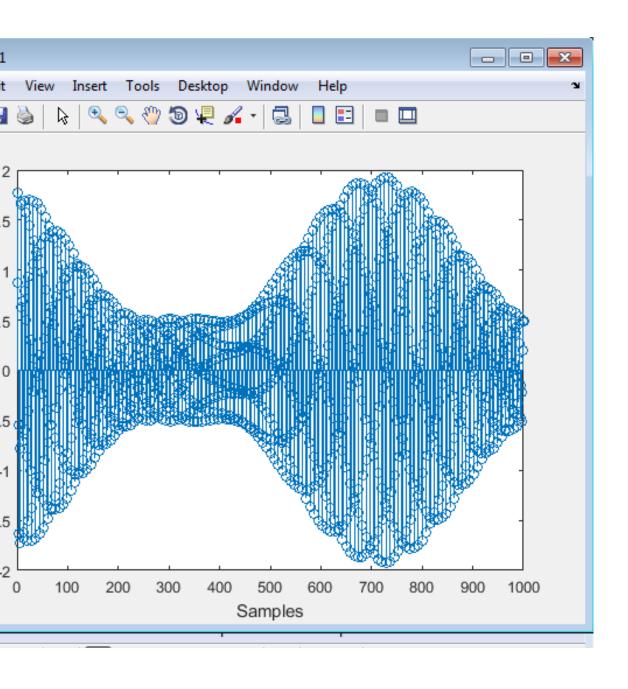




## **DFT3**: 1000 Samples, 0 Zeros, 100 Samples

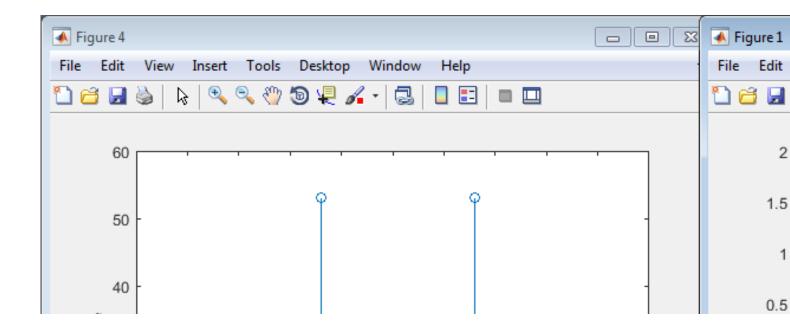


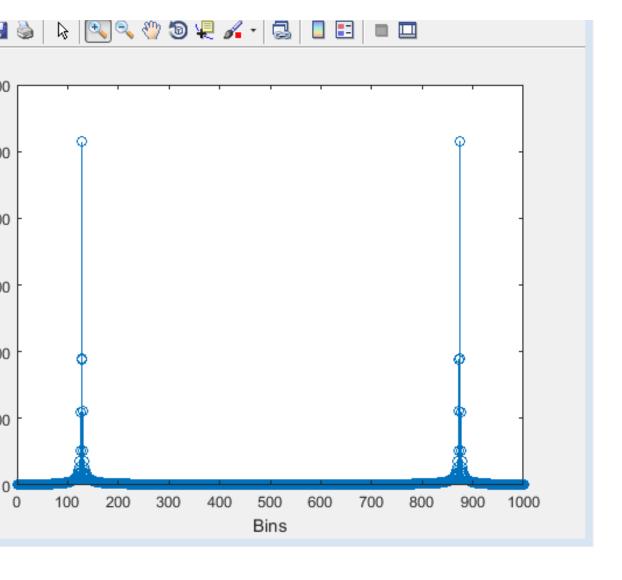


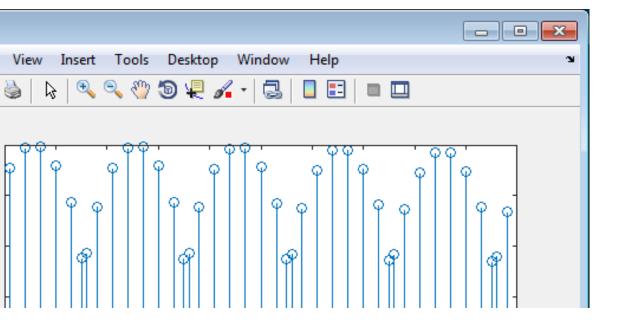


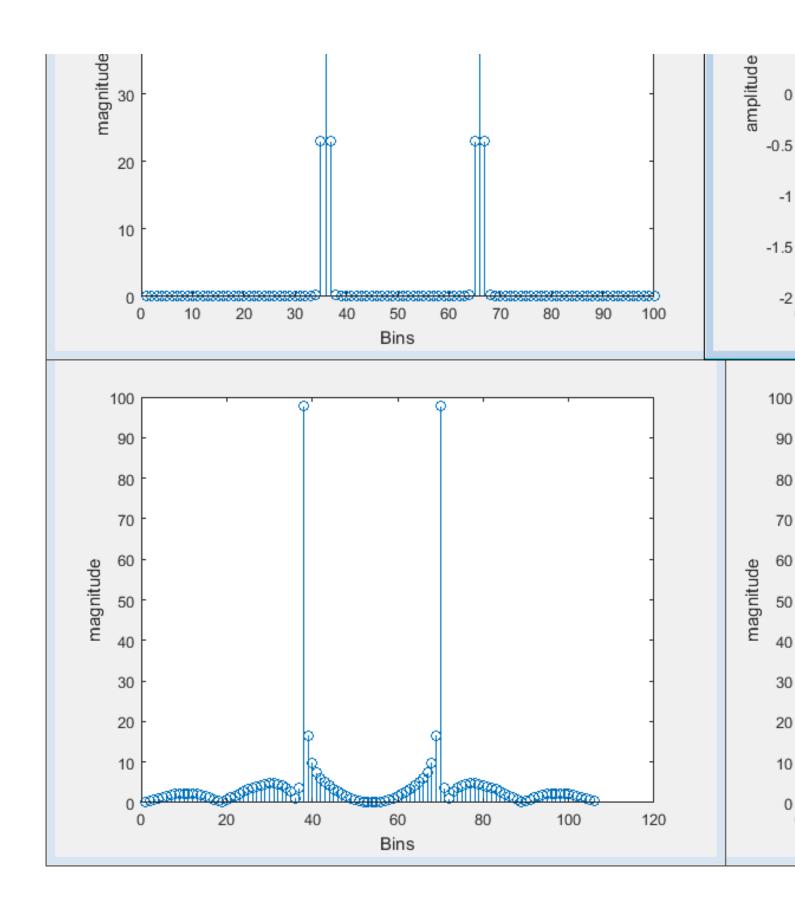
```
% Create ylabel
ylabel('amplitude');
                                                                                  60
figure(2);
stem(mag);
                                                                                   50
% Create xlabel
xlabel('Bins');
% Create ylabel
                                                                                  40
vlabel('magnitude'):
                                                                                magnitude
sources for Getting Started.
                                                                                  30
0.4166
          0.0079
                    0.4226
                            0.5729
                                        0.3694
                                                              -0.4464
                                                   -0.0590
                                                                        -0.
                                                                                  20
through 1001
0.5344
          0.2727 -0.1545 -0.4827 -0.5107 -0.2238
                                                               0.1985
                                                                         0.
                                                                                   10
 through 1006
               0
```

**DFT4**: 100 Samples, 2 Zeros, 100 Samples

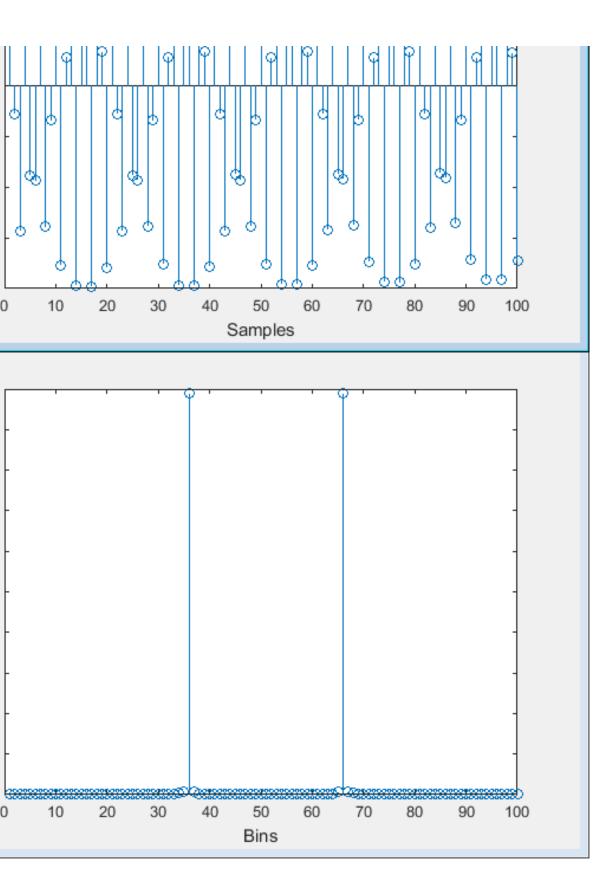


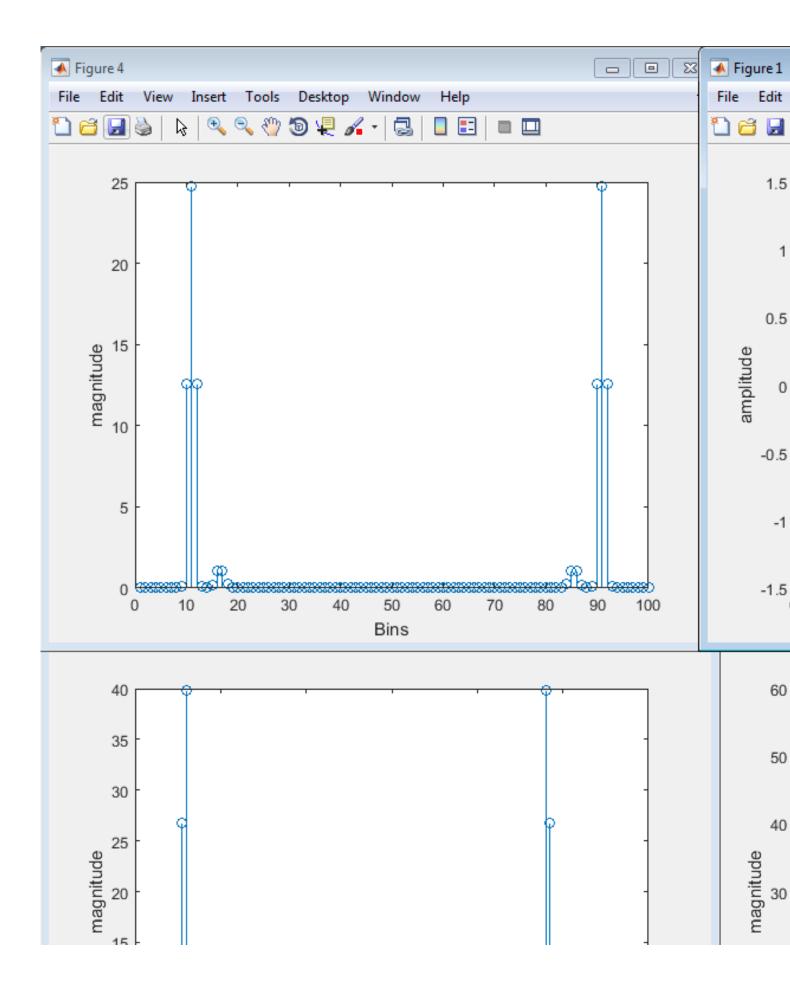


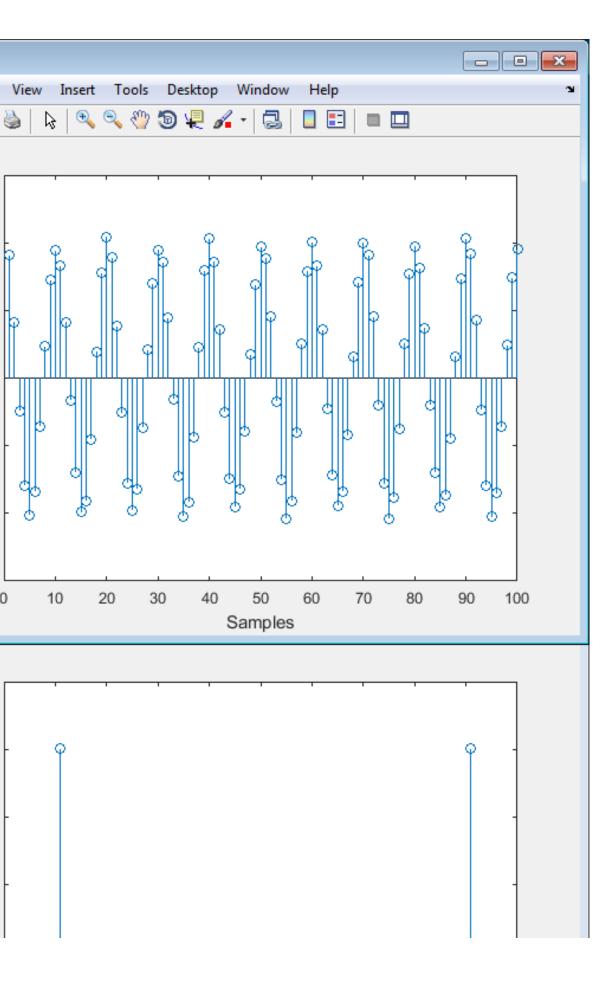


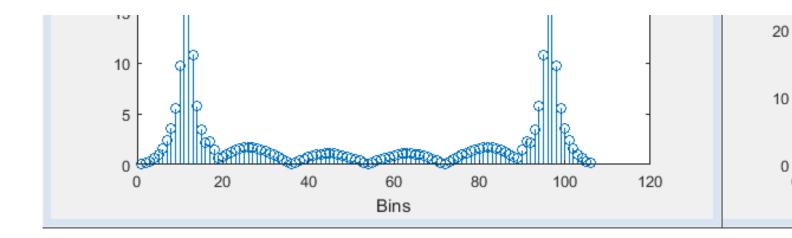


**DFT5**: **100 Samples, 2 Zeroes, 100** Samples









DFT6: Figure 1: 1000 Samples, 2 Zeros, 100 Samples

### **PROBLEM:**

File couldn't run the 6th DFT.

### **SOLUTION:**

Found out I was calling the function improperly.

