Experiment 6

Even - Odd Components

Break a function in even and odd parts

```
clear all;
clc;
x = -2:2;
y = [3 4 2 8 5];
for i=1:length(y)
    y_flip(i) = y(end-i+1);
end
```

Even Part

```
y_even = (y + y_flip)/2;
```

Odd Part

```
y_odd = (y - y_flip)/2;
```

Displaying the results

```
subplot(3,1,1),stem(x,y),title('ACTUAL PLOT')
subplot(3,1,2),stem(x, y_even),title('EVEN PART')
subplot(3,1,3),stem(y_odd,x),title('ODD PART')
```