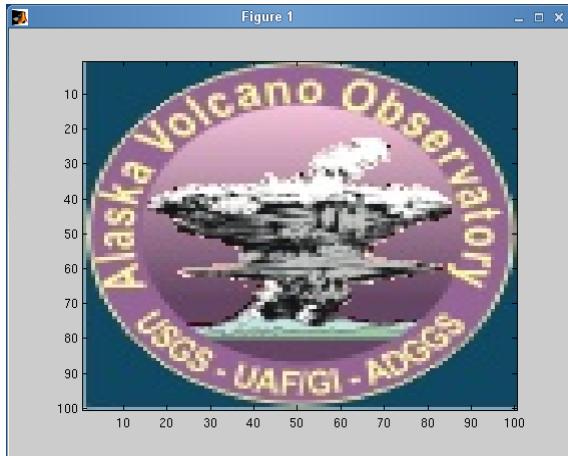
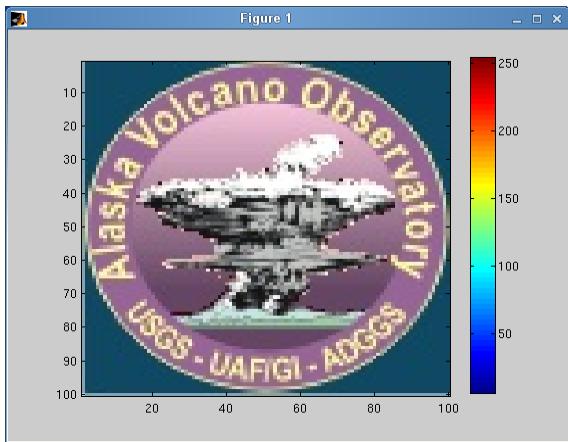


EXERCISE 1:

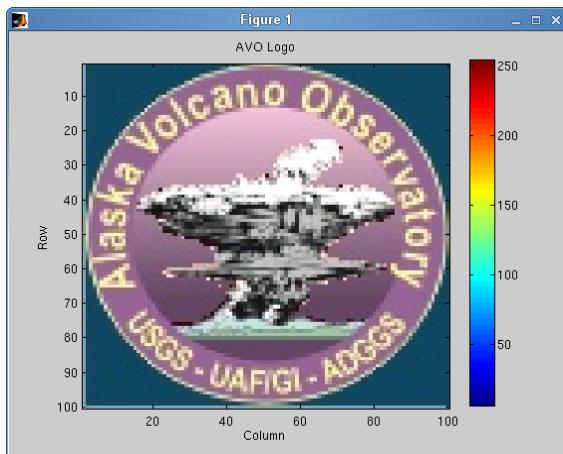
```
>> A = imread('logo_avo_transparent_new.jpg');
>> imagesc(A)
```



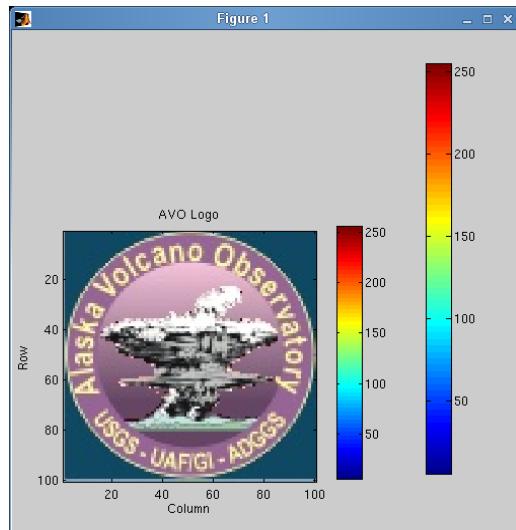
```
>> size(A)
ans =
    100   100    3
>> min(min(A))
ans(:,:,1) =
    6
ans(:,:,2) =
    7
ans(:,:,3) =
   13
>> max(max(A))
ans(:,:,1) =
  255
ans(:,:,2) =
  255
ans(:,:,3) =
  255
>> colorbar
```



```
>> title('AVO Logo')
>> xlabel('Column')
>> ylabel('Row');
```



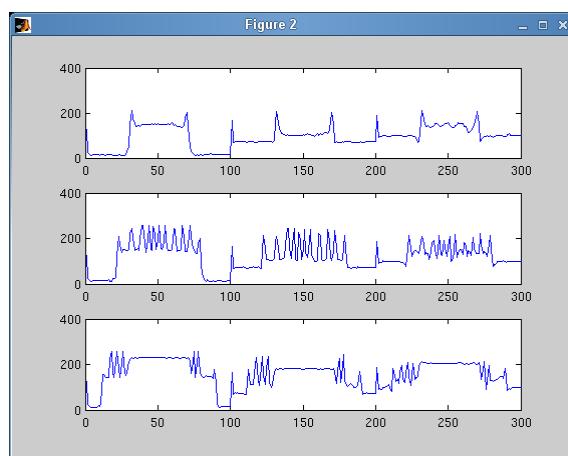
```
>> set(gcf, 'Position', [100 100 500 500]); % just moves the figure on your display & changes window size  
>> set(gca, 'position', [0.1 0.1 0.5 0.5]);
```



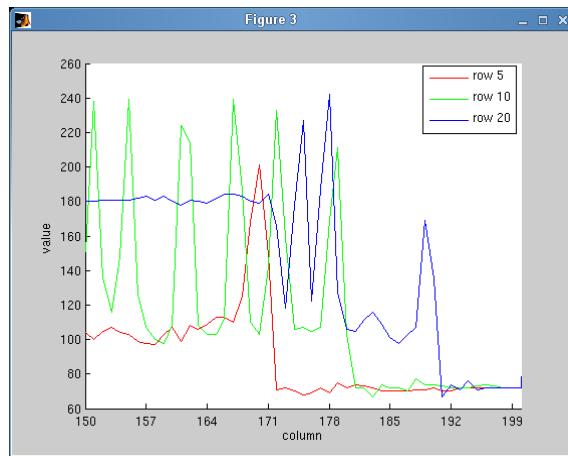
EXERCISE 2

```
>> b = A(5, :);
>> c = A(10, :);
>> d = A(20, :);

>> b = A(5, :);
>> c = A(10, :);
>> d = A(20, :);
>> figure
>> subplot(3,1,1), plot(b)
>> subplot(3,1,2), plot(c)
>> subplot(3,1,3), plot(d)
```

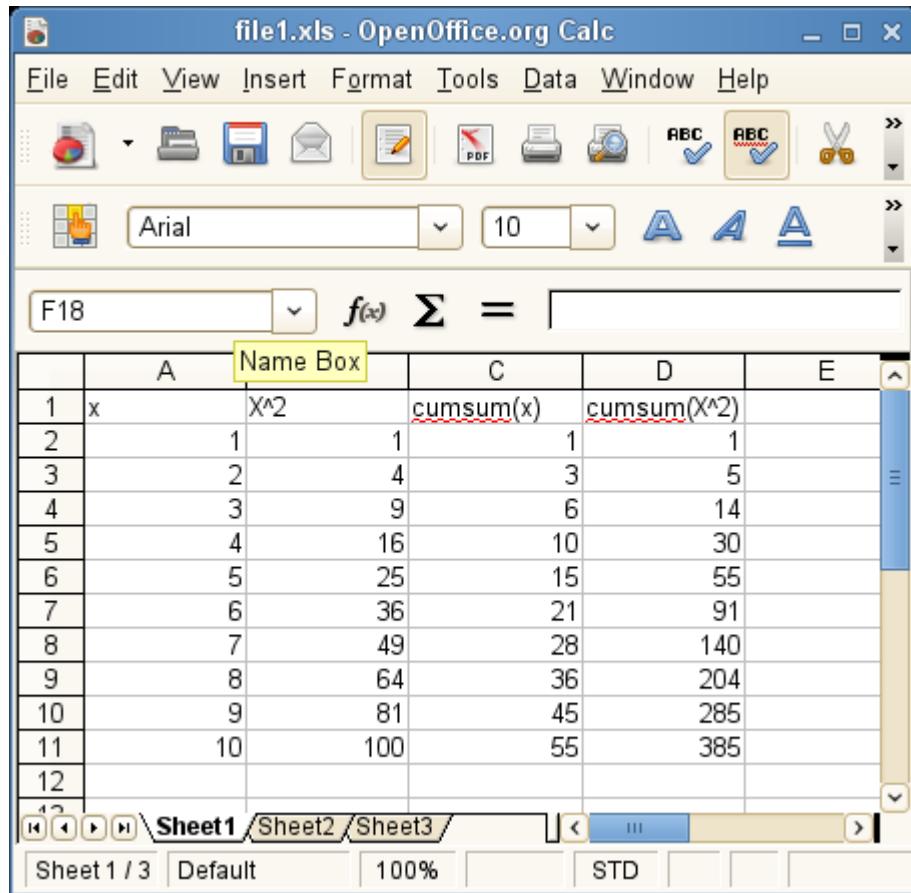


```
>> figure  
>> hold on  
>> plot(b, 'r')  
>> plot(c, 'g')  
>> plot(d, 'b');  
>> set(gca,'XLim',[150 200])  
>> set(gca,'XTick',150:7:200)  
>> xlabel('column')  
>> ylabel('value');  
>> legend('row 5', 'row 10', 'row 20')
```



```
>> print -f3 -depsc figure3.eps
```

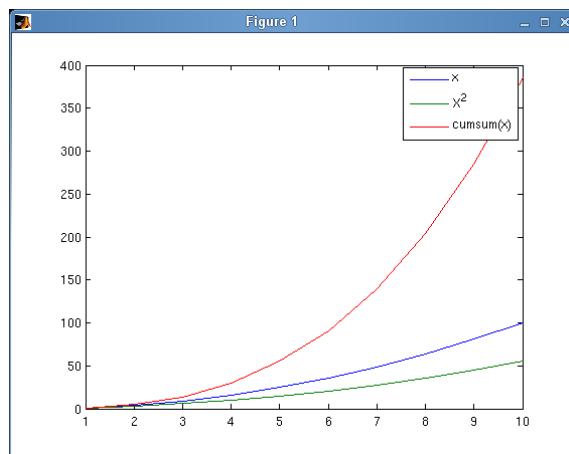
Exercise 3



```
>> [a, t]=xlsread('file1.xls')
a =
 1   1   1   1
 2   4   3   5
 3   9   6  14
 4  16  10  30
 5  25  15  55
 6  36  21  91
 7  49  28 140
 8  64  36 204
 9  81  45 285
10 100  55 385
t =
 'x'  'X^2'  'cumsum(x)'  'cumsum(X^2)'

>> close all
>> plot(a(:,1), a(:,2), a(:,1), a(:,3), a(:,1), a(:,4));
>> legend(t)
```

```
>> print -dpng file1.png
```



```
>> pwd  
ans =  
/home/glenn/Desktop
```

(Open Firefox: <file:///home/glenn/Desktop/file1.png>)

...