**Various Operations on Matrices and various operations to get familiarize with matlab**

>>a=[1 2 3;4 5 6;7 8 9]  
>>b=[9 0 7;6 5 -4;3 2 1]  
>>c=a+b  
>>find(a)  
>>det(a)  
>>inv(c)  
>>zeros(2,5)  
>>b'  
>>ones(3,4)  
>>eye(3,2)  
>>rand(1,10)  
>>diag(a)  
>>size(b)  
>>sign(b)  
>>log(a)  
>>find(b) %to find the index of non zero values%  
>>find(eye(3,2))  
>>eig(a)  
>>length(a)  
>>exp(a)  
>>log10(45)  
>>ceil(a)  
>>floor(b)

>>a\*inv(a)  
>>rank(a)  
>>sort(b)

>>b  
>>max(b)  
>>min(a)  
>>mean(a)  
>>std(a)

>>var(c)  
>>sum(a)  
>>a([1:2])  
>>b(2,3)  
>>a([1:3],[2:3])  
>>sign(b)

>>sin(a)  
>>sin(90)  
>>sind(90)  
>>asin(1)  
>>asind(90)

>>a(:,3)  
>>a(2:end,2:end)  
>>a(2:3,2:3)  
>>a([1:2],[1:2])  
>>a(:,2:end)

>>a([1,3],[2,3])  
>>a(end-1:end,end-1:end)

>>flip(a)  
>>a([3,2,1],[1,2,3])

>>a([3,2,1],:)