Chapter 4\_ Homework due on Friday 10/14

1. Write a program, which will take any numerical Matrix **A** and return minimum and maximum values of its elements. To do that use the **size** command to find a total number of elements in the matrix, [M, N] =**size** (**A**), **reshape** the matrix to a vector (the length of the vector will be M x N). Finally use **min** and **max** commands to get the required values. See Matlab Help or type **help** followed by a function name to see how to use the built in commands.
2. Create vector 1 by 25 containing random elements uniformly distributed in the interval [−0.5, 0.5]. Then generate and display a random signal of length 100 with elements uniformly distributed in the interval [–2, 2]

Notes: use a=4\*(rand(1,25)-0.5) , bar(a), hist(a)

1. Create 3\*3 matrix. Extract the 1’st and the 2’nd row with the 1’st and 3’th column
2. Create 3\*3 matrix of 0’s and 1’s. Find the indices for the zeros
3. Create a vector x containing integer number from 1 to 100. Create a vector containing 1, 0.9,0.8,0.7…..0.1
4. Create a vector x = [3, 1, 2, 5, 4]. From x create y containing the same elements in the reverse order, find indices of elements greater than 2, create z containing elements of x which are smaller than 4.