Homework - Lesson 2

Open the editor and write a script that does the following:

- 1. Use the *rand* function to build a 2 dimensional matrix named *mat1* with 10 values in the first and second dimension.
- 2. Extract the value in the 3 row, and 9 column of the matrix
- 3. Use the *mean* function to create a vector named *vec1*, which contains the mean across all rows.
- 4. Create a new matrix named *mat1*_squared, which contains the squared values of mat1.
- 5. Open matlab help and find the function that allows you to compute the square root. Use this function to compute the square root of *mat1*_squared.
- 6. Use the save command to save all of the matrices you created in a file named homework1.mat
- 7. Save all of the code that you wrote in a file named Firstname_Lastname_Lesson#.m
- 8. Close Matlab and reopen it. Load both .m and .mat files that you saved.
- 9. Use the *rand* function to build another 2 dimensional matrix named *mat2* with 10 values in the first and second dimension.
- 10. Open a figure and use the "scatter" function to display a scatter plot of the values in mat1 versus the values in mat2.
- 11. Save the .m file you created again.