MATLAB Sample Lab:

Exercises:

1. (a) enter the matrix $A=\begin{bmatrix}1 & 2 & 3\\4 & 5 & 6\\7 & 8 & 9\end{bmatrix}$

(b) Evaluate A^2 and A.^2. Explain the difference between the two outputs.

2. (a) Create a row vector **x** with integer entries from 2 to 5

(b) Change the vector into a column vector.

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SAMPLE LAB WRITE UP:

MAT 343 MATLAB LAB 1 **NAME: _____**

1.
a) A=[1,2,3;4,5,6;7,8,9]
A =
1 2 3
4 5 6
7 8 9
b) A^2, A.^2
ans =
30 36 42
66 81 96
102 126 150
ans =
1 4 9
16 25 36
49 64 81

A^2: performs the regular matrix-matrix multiplication A*A
A.^2: every entry of A is squared

2.
a) >> x=2:5
x =
2 3 4 5
b) >> x=x'
x =
2
3
4
5