Matlab commands

% - comments

&& % AND

% 0.2f for 2 decimal pla.

zeros

ones

eye

rand

» pwd % shows current directory

» load features.dat

→ To delete, we use

clear ans

→ To save a variable 'v',

save hello.mat v;

λ load

→ To save in texts,

save hello.txt v -ascii

→ A(:) is used to give a column vector.

A * B matrix multiplication

A .* B element wise multiplication

A = 1 2
    3 4
    5 6

A' = 1 3 5
     2 4 6

a = 1 15 2 5

[val, ind] = max(a)

val = 15

ind = 2

A = magic(3)

A = 8 1 6
    3 5 7
    4 9 2

sum(a) → sum of all numbers

fred(a)

floor(a)

ceil(a)

$$A = \begin{matrix} 8 & 1 & 6 \\ 3 & 5 & 7 \\ 4 & 9 & 2 \end{matrix}$$

max(A, [], 1)

= column wise max

= [8, 9, 7]

max(A, [], 2)

= row wise max

$$= \begin{bmatrix} 8 \\ 7 \\ 9 \end{bmatrix}$$

for overall max,

max(max(A))

or A(:)

max A

Plots

print -dpng 'myplot.png'

>> A = magic(5)

>> imagesc(A)

>> imagesc(A), colorbar, colormap gray;

→ for i = 1:10,
v(i) = 2^i;
end,

→ i = 1
while i <= 5,
v(i) = 100;
i = i + 1;
end;

Functions

function y = squareThisNumber(x)
y = x^2;

addpath('C:\Users\y\Desktop');

function [y1, y2] = SquareAndCubeThisNumber(x)
y1 = x^2;
y2 = x^3