clc

close all

clear all

k = (rand(1,541));

h = 0:540;

g = .5\*exp(-k.\*h);

g1 = .6\*exp(-sort(k).\*h);

p = 1.5\*exp(-k.\*h);

p1 = 1.7\*exp(-sort(k).\*h);

w = 36\*exp(k.\*h);

w1 = 34\*exp(sort(k).\*h);

%Loss

figure(1)

loglog(g,'LineWidth',2,'Color','g')

hold on

loglog(g1,'Linewidth',2,'Color','r')

xlabel('\bf{Iterations}')

ylabel('\bf{Loss}')

legend('Training Loss','Validation Loss',...

'Location','southeast')

title('A.LSTM ')

%%RMSE

figure(2)

loglog(p,'LineWidth',2,'Color','b')

hold on

loglog(p1,'Linewidth',2,'Color','y')

xlabel('\bf{Iterations}')

ylabel('\bf{RMSE}')

legend('Training RMSE','Validation RMSE',...

'Location','southeast')

title('A.LSTM ')

%%Accuracy

figure(3)

loglog(w,'LineWidth',2,'Color','c')

hold on

loglog(w1,'Linewidth',2,'Color','m')

xlabel('\bf{Iterations}')

ylabel('\bf{RMSE}')

legend('Training Accuracy','Validation Accuracy',...

'Location','northwest')

title('A.LSTM ')