## Task 3:

close all

clear all

clc

R = 220;

C = 1e-6;

num = [1];

denum = [R\*C 1];

system = tf(num, denum)

fc = 1 / (2\*pi\*R\*C);

w = 2\*pi\*fc

[mag, phase] = bode(system, w)

bode(system), grid on



## Task 4 (Bode Plot)

close all

clear all

clc

R = 220;

C = 1e-6;

num = [1];

denum = [R\*C 1];

system = tf(num, denum)

fc = 1 / (2\*pi\*R\*C);

w = 2\*pi\*fc

[mag, phase] = bode(system, [1e6 .4e6 .1e6 30e3 10e3])

bode(system), grid on

## Task 5:

close all

clear all

clc

R = 220;

C = 1e-6;

num = [1];

denum = [R\*C 1];

system = tf(num, denum)

fc = 1 / (2\*pi\*R\*C);

w = 2\*pi\*fc;

[mag, phase] = bode(system, w)

[mag, phase] = bode(system, [1e6 .4e6 .1e6 30e3 10e3])

bode(system, {1e2 1e4}), grid on

%% subplot(row, column, position)

subplot(2,1,1), bode(system), grid on

subplot(2,1,2), bode(system, {1e2 1e4}), grid on

