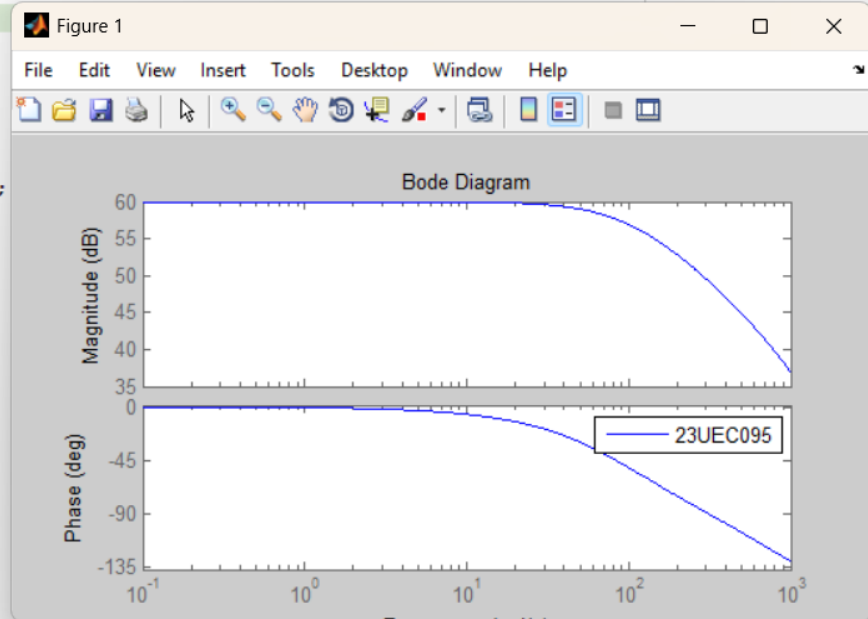


Bode Plot Code

The transfer function is

$$H_1(s) = \frac{1000}{0.01s + 1} \cdot \frac{1}{0.001s + 1} = \frac{1000}{(0.01s + 1)(0.001s + 1)}$$

```
num = [0 1000];  
den1 = [0.01 1];  
den2 = [0.001 1];  
den = conv(den1,den2);  
  
f = tf(num,den) ;  
k = logspace(-1,3,1000);  
bode(f,k)  
legend('23UEC095')
```

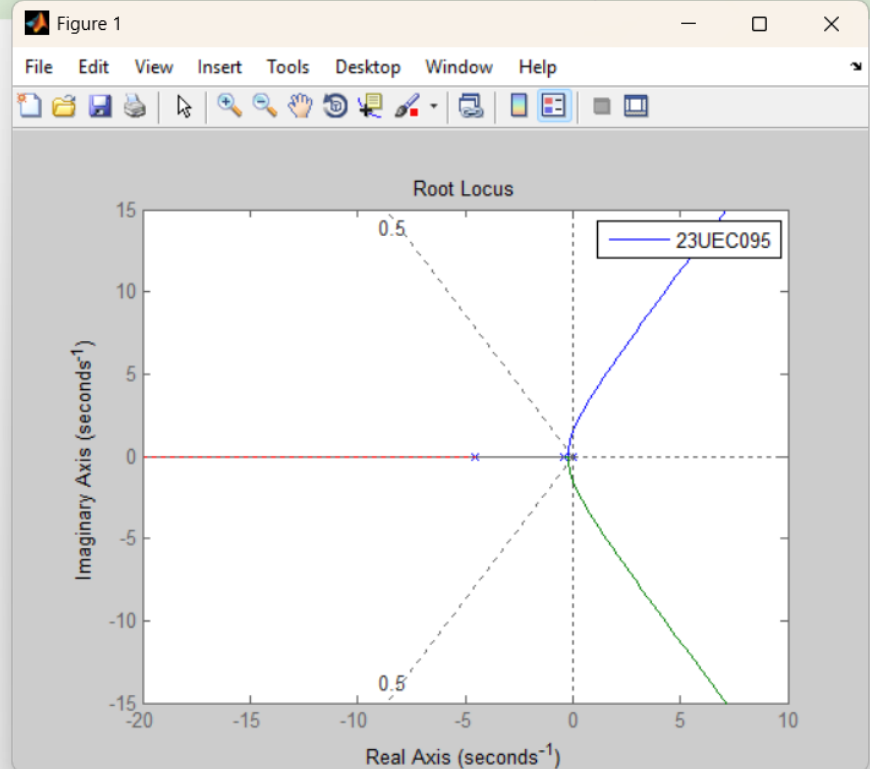


Root Locus Code

The transfer function is

$$H_2(s) = \frac{s}{s^3 + 5s^2 + 2s}$$

```
num = [ 0 1 ];  
den = [1 5 2 0];  
  
f = tf(num,den);  
rlocus(f)  
sgrid(0.5,[])  
legend('23UEC095')
```



Nyquist Plot Code

The transfer function is

$$H_3(s) = \frac{10}{(s+2)(s+4)}$$

```
num = [0 10];  
den1 = [1 2];  
den2 = [1 4];  
d = conv(den1,den2);  
  
f = tf(num,d);  
nyquist(f)  
legend('23UEC095')
```

