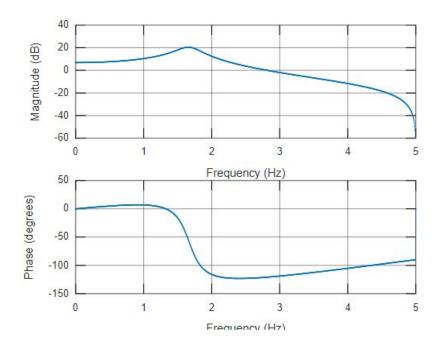
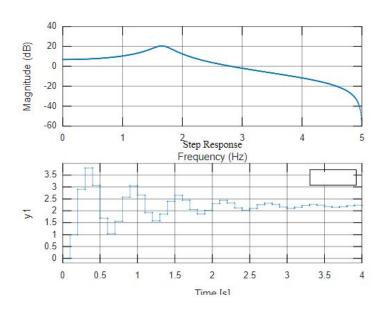
```
num = [1 1];
 den = [1 -0.9 0.81];
 H = tf(num, den, 0.1, 'variable', 'z^-1')
 freqz(num, den, 1000, 10)
 s = filter(num,den,[ones(1,100)]);
 step(H)
 zplane(num, den);
 [p,z] = pzmap(H);
 p = abs(p)
 si = filter(num,den,[1,zeros(1,99)]);
 impulse(H)
 num = [1 0 -1];
 den = [1 0 - 0.81];
 H = tf(num,den,0.1,'variable','z^-1')
 h = filter(num, den, [1, zeros(1,99)]);
 plot(h)
 s = filter(num,den,[ones(1,100)]);
 plot(s)
 freqz(num,den,1000,10);
1 - a.
Transfer function 'H' from input 'u1' to output ...
             z^{-1} + z^{-2}
 v1: -----
       1 - 0.9 z^-1 + 0.81 z^-2
Sampling time: 0.1 s
Discrete-time model.
```

1 - b.



1- c.



1- d.

2nd ->

1- e.

2- b.

2 - c.

2 - d.