

```
% Clear the variables and clear the workspace
```

```
clear; clc;
```

```
% Numerator and denominator for transfer function
```

```
numerator = [2 5];
```

```
denominator = [1 7 12];
```

```
% Transfer function
```

```
sys = tf(numerator, denominator);
```

```
% Bode plot for
```

```
subplot(2,1,1);
```

```
bode(sys);
```

```
% Step Resonpse of the System
```

```
subplot(2,1,2);
```

```
step(sys)
```