```
College Name: - Walchand College of Engineering, Sangli
Year: - Third Year
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PRN: - 2020BTEEN00058
Subject: - Digital Signal System Lab
Batch: - EN3
```

## Code

```
close all;
clc;
wc = 0.5*pi; % cutoff frequency
N = 25;
% Tuning parameter = 0.5
b = fir1(N,wc/pi,kaiser(N+1,0.5));
W = 0:0.01:pi;
h = freqz(b,1,w);
plot(w/pi,20*log10(abs(h)),'g-');
hold on;
% Tuning parameter = 3.5
b = fir1(N,wc/pi,kaiser(N+1,3.5));
w = 0:0.01:pi;
h = freqz(b,1,w);
plot(w/pi,20*log10(abs(h)),'r-');
hold on;
% Tuning parameter = 8.5
b = fir1(N,wc/pi,kaiser(N+1,8.5));
w = 0:0.01:pi;
h = freqz(b,1,w);
plot(w/pi,20*log10(abs(h)),'b-');
xlabel('Normalized frequency \omega/\pi');
ylabel('Magnitude in dB');
legend('Tuning parameter 0.5', 'Tuning Parameter 3.5', 'Tuning
Parameter 8.5');
hold off;
```

## Output

