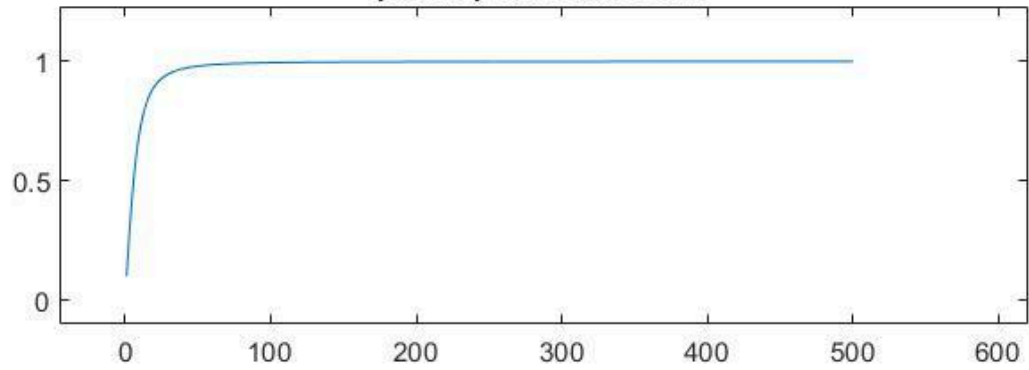## Source Code :

```
clc;
close all;
clear all;
fl=10;
for f=1:500
        x(f)=(1/sqrt(1+(fl/f)^2));
        f2(f)=f;
end
subplot(2,1,1);
plot(f2,x);
title('pre emphasis waveform');

for f=1:500
        y(f)=(1/sqrt(1+(f/fl)^2));
        f3(f) = f;
end
subplot(2,1,2);
plot(f3,y);
title('de emphasis waveform');
```

Output :

pre emphasis waveform

de emphasis waveform