```matlab
clc;
close all;
clear all;
syms x t %by using matlab symbloic math tool box
x=exp (-5*t)*heaviside (t);
y=fourier (x);
display(y)
mag=abs(y);
subplot(211);
ezplot(x);title('input signal')
subplot(212)
ezplot(mag,[-10 10]);
title('magitude spectrum');
x1= ifourier (y);
display(x1)

%Name:K.VIVEK
%Roll No:20A91A04L8
%Date:14/12/2021
```
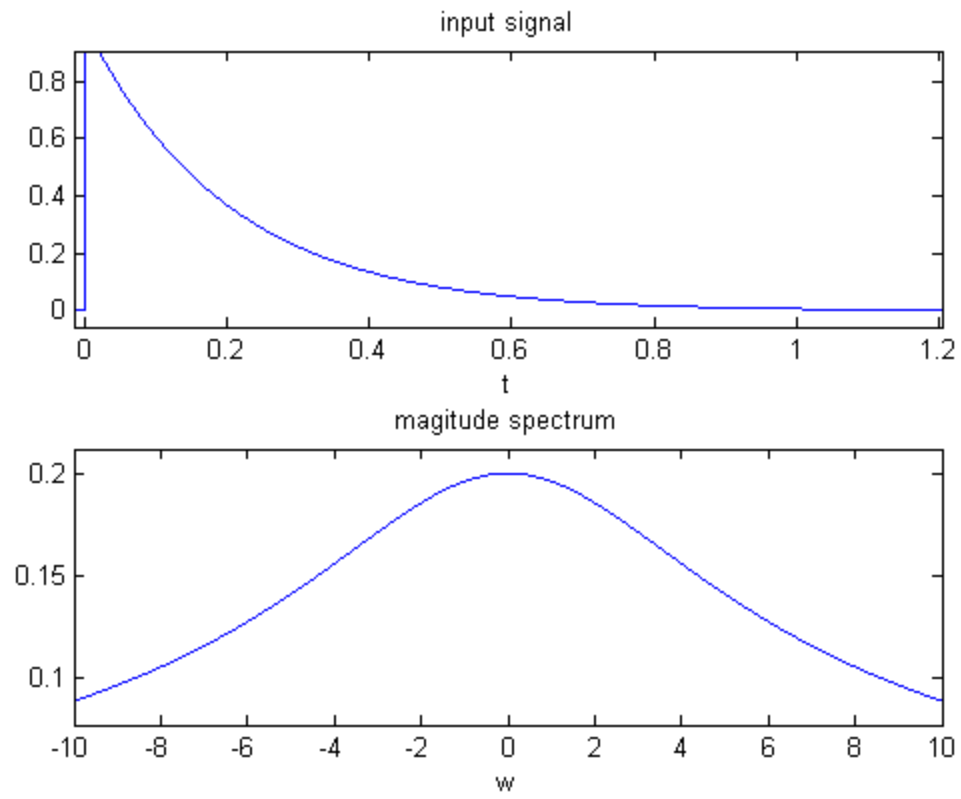
        y =

        *1/(w*i + 5)*

        x1 =

        *exp(-5*x)*heaviside(x)*

input signal

magitude spectrum

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