```
//example 8.2(b)//
//to find frequency of output waveform//
clc
//clears the screen//
clear
//clears the variables//
f=10*1000;
//frequency of trigger waveform in Hertz//
t=100*(10^-6);
//time period b/w two successive leading or trailing edges in
microseconds//
r=10*1000;
//resistance in Ohms//
C=.01*(10^-6);
//capacitance in microfarads//
ep=1.1*r*C;
disp('the trigger waveform is a symmetrical one; it has HIGH and LOW
time periods of 50microsec each. Since the LOW state time period of
trigger waveform is less than the expected output pulse width, it can
succesfully trigger the monoshot on its trailing edges')
disp(ep,'expected pulse width=')
disp('since the time period between two successive trailing edges is
100 microsec and the expected output pulse width is 110 microsec,
therefore only alternate trsiling edges of trigger waveform will
trigger the monoshot')
f0=f/2;
disp(f0,'output frequency')
t=1/f0;
disp(t,'time period of output waveform=')
dc=ep/t;
disp(dc,'duty cycle of output waveform=')
```