```
//example 8.1 (a)//
clear
//clears the screen//
clc
//clears the variable//
close
//R =input('Enter the value of the resistance R in Kohms : ')//
//C =input('Enter the value of the Capacitance C in micro farads : ' )
sp = input ('Enter the spacing between two input pulses in microseconds:
');
R = 14.5;
//taking give values//
C = 0.01;
t = 693* R*C;
//calculting time constant//
tt=t*10;
p = 1;
len =sp*60 -1;
q = 1;
for j=1: len
//plotin the graphs//
lo = sp *10;
f= <u>modulo</u> (j, lo);
if f ==0 then
inpu (j)=1;
else
inpu (j)=0;
end
inpu (1) = 1;
o(j)=2;
end
while q<len
result (q) = 0;
q=q+1;
end
while p<len
if inpu (p)==1 then
for k=1: tt
result (p+k) = 1;
end
p=p+tt;
else
result (p) = 0;
p=p+1;
end
end
<u>subplot</u> (2 ,1 ,1);
//ploting bothe graphs in same window//
plot (o);
plot ( inpu );
xlabel (' time X10^□7 seconds ');
ylabel ('Magnitude');
title ( ' input pulses ' );
subplot (2 ,1 ,2);
<u>plot</u> (0);
```