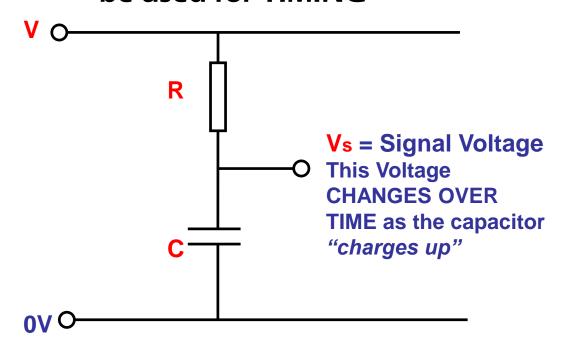
Potential Dividers with CAPACTITORS in them can be used for TIMING



The resistor slows down the current which then flows into the Capactitor. As the capacitor "fills up" (becomes fully charged) it's resistance increases and Vs gets larger and larger.

Changing the Values of either the Resistor (R) or the Capacitor (C) will change the TIME CONSTANST (T)

The TIME CONSTANT is a fancy name for how long it takes a capacitor to charge up from current through a resistor.

The Time
Constant can
be calculated
using this
formula...

But USE YOUR
COMMON SENSE to
check your answer!