## Derivation of highest countable time using TIMERO

 $XTAL = 16MHz \rightarrow T_{xtal\_clock} = 1/16 us$ 

Prescaler = 1:1024  $\rightarrow$  T<sub>counter\_clock</sub> = 1024 x (1/16) us

= 64us

Highest countable time interval =  $64us \times 256$ 

= 16384us