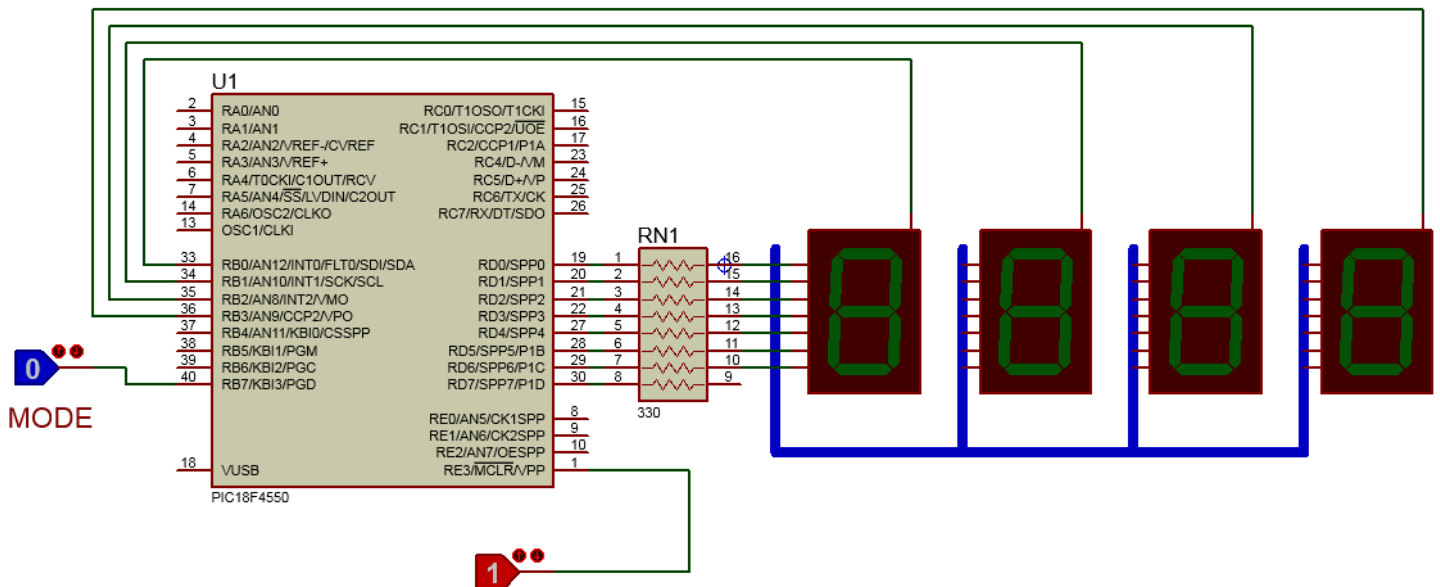


Universidad Peruana de Ciencias Aplicadas  
Summer School Course 2019: Microcontrollers  
First Assignment



The above diagram is a microcontroller based system that display two messages on the four multiplexed displays depending on port RB7. The frequency of the multiplexing process should be higher than 100Hz to prevent the flickering effect on the displays. The messages should be scrolled from right to left with a time period of 1 second. It's recommended to use of interrupts and Timer0 for the multiplexing process. The message should be scrolled completely in an event of message change.

Port RB7	Message
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The characters should complain with the following 7-segment character map:

a b c d e f g h i j k l m  
 n o p q r s t u v w x y z  
 0 1 2 3 4 5 6 7 8 9 0