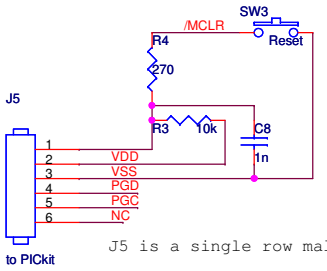
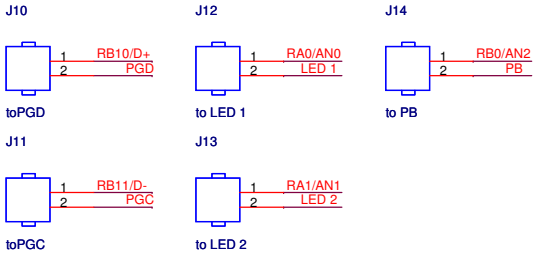
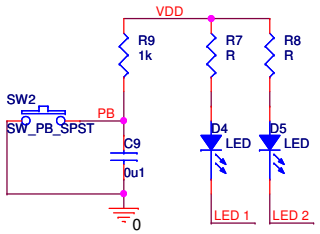


SW3 is a tactile switch

J5 is a single row male pin header

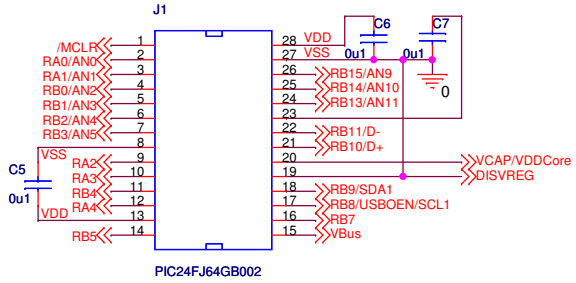


J10 to J14 2-pin male headers
-- J10, J11 shorted by jumper when programming
-- J12, J13, J14 shorted during board testing

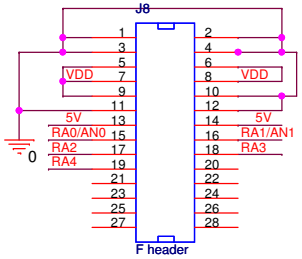


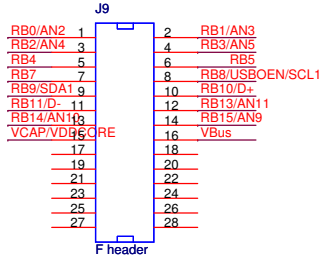
Test LEDs D4, D5, and PB SW2 are only for debugging purposes (i.e. to check if board is working correctly)

D4 - LED of your favorite color
D5 - LED of your second favorite color :)



Place bypass caps, C5, C6, as close to uC as possible





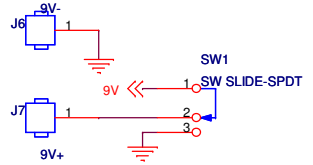
Important:
J8, J9 are single row female headers

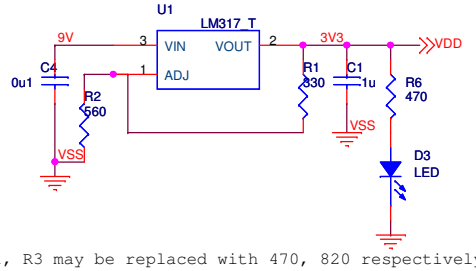
J8, J9 must be spaced (Alexan) breadboard width from each other

Strict pin placement restrictions:
-- J8 on left side of board contains supply pins and PORT A pins
-- J9 on right side of board contains PORT B pins, VCAP, VBus

Pin assignments shown are suggestions, you may adjust the number of pins dedicated to supply pins, but pin placement restrictions still apply

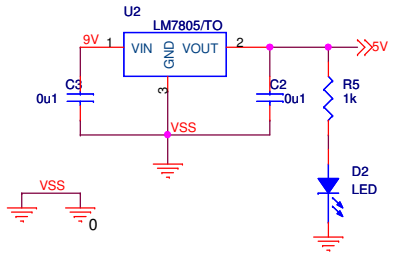
J6, J7 may be DC socket, 9V battery clip, or accessible pins to connect DC supply
May also have multiple options available for flexibility





R1, R3 may be replaced with 470, 820 respectively if 330 or 560 is unavailable

You may compute for own values of R1, R3 as well



D2, D3 V Rail indicator LEDs

3V3 rail is Vdd supply
5V rail will be used for other modules such as LCD

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