I designed this homework to be completed with everyone on your team. Each team was given two Arduino SHIELD kits in class on September 17, 2013. These will be used for this homework as well as upcoming in-class exercises. It is expected that everyone on the team meaningfully participate with this homework. Each team shall bring the two Arduino SHIELDs, two wired potentiometers, Arduino Unos, and two laptops with Arduino software installed and tested with an actual Arduino Uno to class on September 19th, 26th, and October 1st, 2013. Each team member shall submit a copy of this homework as directed above indicating that he or she completed these questions with their team members.

1. Build and solder your Arduino ProtoShield Kit (2 per team) using the two soldering hardware kits given to each team in class on September 17, 2013. There are no instructions but it is fairly simple. Build exactly as shown in the picture below. Make sure headers are perpendicular and flush with your Shield board. **DO NOT TRIM LEADS OF THE BLACK HEADER PIECES.**

2. Solder three wires to the potentiometer as shown in the picture below. Use the same colors of wires in the same locations shown.