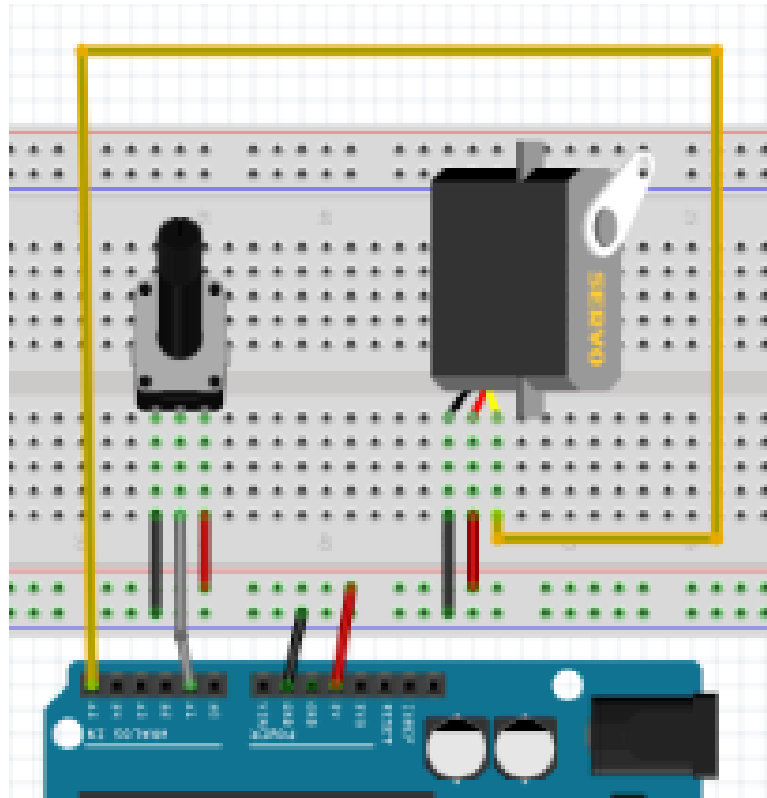


ECET 130 - Lab 8

Pots and Servos

Part1:

Wire the following circuit.



The servo that you have has the wire colors brown red orange from left to right instead of black red yellow as shown in the diagram.

Part2:

Write a program to read a pot on A1 and display the resulting decimal number and its

voltage continuously on the serial console.

The servo should move relative to the pot.

A minimum pot value should move the servo to the most counterclockwise position.

A maximum pot value should move the servo to the most clockwise position.

You should look at **analogRead** and the **servo library**.

Part3:

Read the pot value into an array of at least 8 readings and display the average value and voltage on the serial terminal instead of the individual reading.

Submit to the dropbox Lab8 folder by the start of lab Week9:

- **your appropriately commented program from part3**
- **a screen capture of your serial console output**

Be prepared to demo your lab in lab Week9