Project Title: HIGH FIVE ROBOT ARM

Video: <https://youtu.be/lzHVLNFwgE8>

Getting Started: Hardware: 1 - Arduino Uno Board; 2 - Servo motors; 1 – Painted Cardboard hand ; 1 - Distance IR Sensor; Wires; Metal Links for the arm; Platform to secure your arm.

Software: Install Arduino from arduino.cc and include Servo library. The code that was used is attached to the folder.

1. Connect servo motors to ground, 5V, and digital pins, 6 and 7.
2. Designed cardboard hand
3. Assembled robot arm with metal links and zip ties

Software:

1. Added Servo1 objects.
2. Wired servo motors to breadboard
3. Added IR sensor to detect range of distance
4. Map values from 0 to 1023 to desired degree i.e. from 0 to 180.
5. Reassign values to correspond with sensor using mapped Position X as our variable
6. Added mapped Y on processing for left- right motion on servo2
7. Write those values to servo for sweep in up and down motion.
8. Read the values from analog input for a IR sensor

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