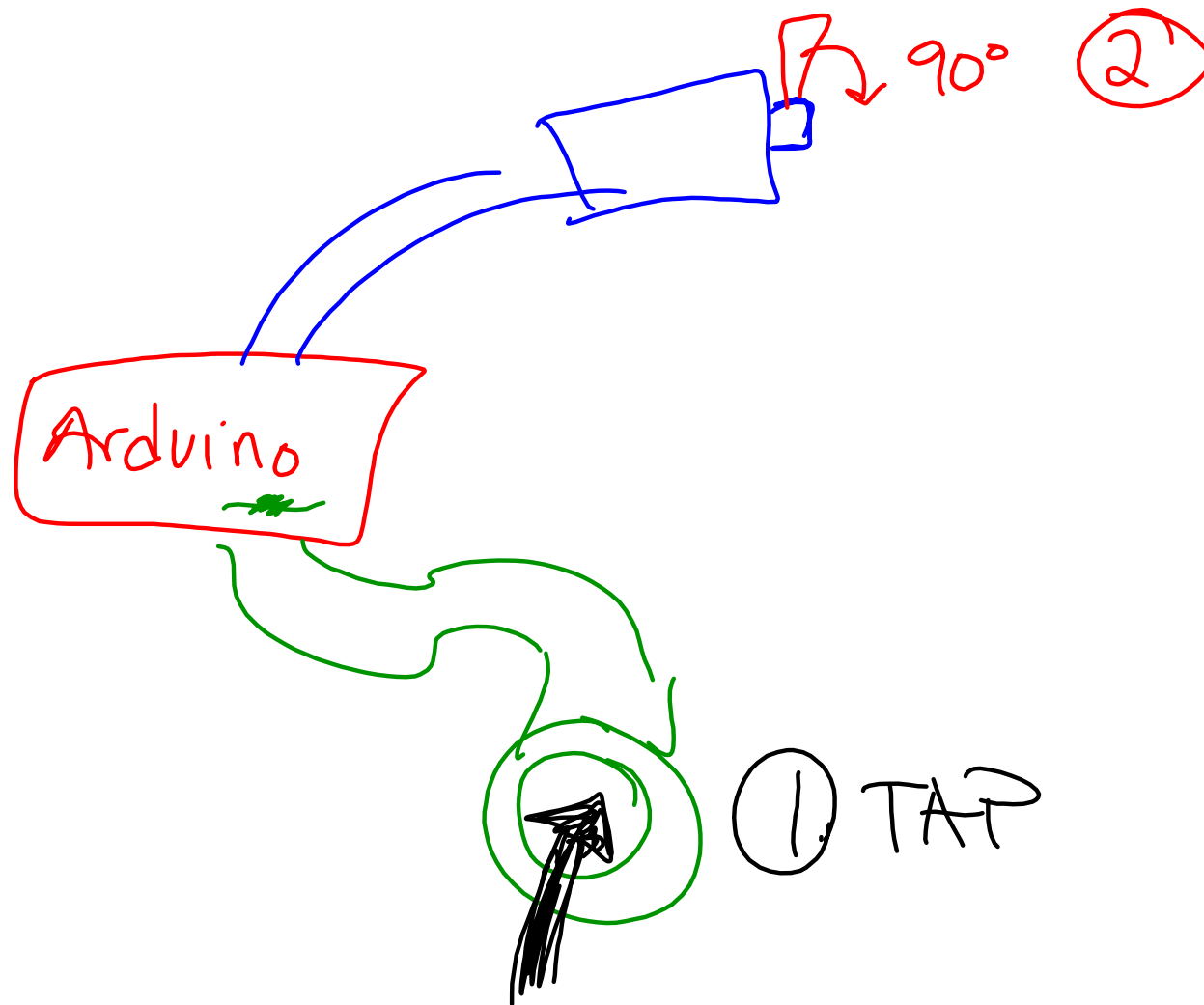# Today's Goal:

- Set up an Arduino

- Write a sketch

1. Arduino will sense a reasonable tap from a piezo sensor
2. When a tap is sensed, a servo should rotate 90°,

90°

②

Arduino

① TAP

<u>Piezo</u>

Detects a tap

↳ Shows #

↳ turns on LED

~~Shows # / turns on LED~~

<u>Servo</u>

~~Rotates 180° over & over~~

modify:

rotates 90°

<u>ONCE</u>

Remember: you need to <u>merge</u> variables, setup code, beginning comments

pseudocode:

set up variables/constants

setup
  establish starting values
  set servo to a starting position (0°)

loop
  read the piezo sensor value
  check to see if sensor > threshhold
        rotate servo to 90°
  delay to let Arduino catch up

Checklist:

☐ When you tap the piezo, the servo rotates 90°

☐ Unneeded code has been removed (extra variables, LED, serial monitor)

☐ Initial comments describe sketch and include your name

☐ Sketch has comments that correctly describe the actions of each line of code

TURN IN CHECKLIST!

WITH PRINTED CODE!