Week 3: Transducers

It is HIGHLY RECOMMENDED that you read through this week's lab and familiarize yourself with all the material before attending the lab session—there is a lot of content in this week's lab and understanding the material is critical for success!

Week 3 Prelab

Briefly answer the following questions.

Name: DENISE UID

1. Draw the circuit schematic symbol of a diode and label the anode and cathode.



- 2. When a diode is forward biased, the anode is at a (circle one) higher / lower voltage than the cathode.
- 3. When looking at the diode itself, what are the two methods for telling which side of an LED is the anode and which side is the cathode?
 - LOOK AT THE OVTER CASING OF THE LED, THE CATHODE PIN WILL BE THE PIN NEAREST TO THE FLATEDOE ON THE CASING

- LOOK AT THE LED LEGS, THE LONGER LEGS WOULD IDENTIFY ASTHE ANODE PIN

4. Fill in the blank: When a <u>HIGH</u> voltage relative to the <u>EMITER</u> is applied to the <u>BASE</u> of an NPN transistor, current is allowed to flow from the <u>couector</u> to the <u>EMITER</u>.

Week 3 Prelab End